Acer

Aspire M5802(G) Service Guide

Service guide files and updates are available on the ACER/CSD web; for more information, please refer to <u>http://csd.acer.com.tw</u>

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Revision History

Please refer to the table below for the updates made on this service guide.

Date	Chapter	Updates

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Conventions

The following conventions are used in this manual:

SCREEN MESSAGES	Denotes actual messages that appear on screen.
NOTE	Gives additional information related to the current topic.
WARNING	Alerts you to any physical risk or system damage that might result from doing or not doing specific actions.
CAUTION	Gives precautionary measures to avoid possible hardware or software problems.
IMPORTANT	Reminds you to do specific actions relevant to the accomplishment of procedures.

Service Guide Coverage

This Service Guide provides you with all technical information relating to the BASIC CONFIGURATION decided for Acer's "global" product offering. To better fit local market requirements and enhance product competitiveness, your regional office MAY have decided to extend the functionality of a machine (e.g. add-on card, modem, or extra memory capability). These LOCALIZED FEATURES will NOT be covered in this generic service guide. In such cases, please contact your regional offices or the responsible personnel/channel to provide you with further technical details.

FRU Information

Please note WHEN ORDERING FRU PARTS, that you should check the most up-to-date information available on your regional web or channel. If, for whatever reason, a part number change is made, it will not be noted in the printed Service Guide. For ACER-AUTHORIZED SERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code to those given in the FRU list of this printed Service Guide. You MUST use the list provided by your regional Acer office to order FRU parts for repair and service of customer machines.

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System Tour

Features

Below is a brief summary of the computer's many feature:

NOTE: The features listed in this section is for your reference only. The exact configuration of the system depends on the model purchased.

Operating System

- Microsoft Windows Windows7 Home Premium 64bits
- Microsoft Windows Windows7 Home Premium 32bits
- Microsoft Windows Windows7 Home Basic 32bits
- Linpus Linux x-Window mode
- Freedos

Processor

- Socket Type: Intel Socket T LGA 775 pin
- Socket Quantity: 1
- Processor Type:
 - CPUs which compliant with Intel FSB 800/1066/1333 MHz CPUs
- FMB
 - 95W FMB
 - VRD 11.1

Chipset

- GMCH: Intel G43
- ICH: Intel ICH10R
- Design Criteria:
 - Should meet Intel G43+ICH10R platform design guide
- Super I/O: ITE8720
 - Should support Intel ASFC
 - Should support Intel PECI

PCB

MicroATX (9.6 inches*9.6 inches, 244mm*244mm)

Memory subsystem

- Socket Type: DDR II connector
 - Socket Quantity: 4
 - Channel A: slot 0, 1; Channel B: slot 2, 3
 - Different colors for slot 0/2 and slot 1/3
- Dual channel support
- Support Intel Flex Memory Mode

- Capacity support:
 - 1GB / 2GB DDRII 667/800 Un-buffered Non-ECC DIMM support
 - 1GB to 8GB Max memory support
- Design Criteria:
 - Should meet Intel G43 Express Chipset platform design guide
 - Dual channel should be enabled always when plug-in 2 same memory size DDRII memory module

Hard disk

- Support up to two SATA ports
- 3.5", 25.4mm
- Capacity and models are listed on AVLC

Optical disk

- Support two SATA 5.25" standard ODD
- Support DVD-ROM, DVD-SuperMulti, BD-combo, BD-rewrite
- Maximum ODD depth to 185mm with bezel
- Models are listed on AVLC

Graphics card

• No mechanical retriction to support for double slot, full length graphics cards in the single PSIe X16 slot

On-Board Graphic solution

- Intel G43 on die graphic solution
 - DVMT 5.0 technology support
 - Enhanced 3D and Clear Video technology support
 - 1 D-sub VGA port on rear
 - 1 HDMI port on rear
 - Dual View function support

Serial ATA controller

- Slot Type: SATA connector
- Six SATA ports:
 - 4 for HDD
 - 2 for ODD
- Storage Type support:
 - 1.HDD : Support RAID 0/1/5/10
 - 2.CD-ROM/CD-RW/DVD-ROM/DVD-RW/DVD+RW/DVD Dual/DVD SuperMultiPlus/Blu-Ray ODD 3.AHCI mode supported for internal SATA port

Audio

- Chip : HD audio codec ALC888S-VC codec 7.1
- Connectors support:
 - Rear 6 jack follow HD audio definition
 - Audio jacks color coding: should meet Microsoft Windows Logo Program Device Requirements: Audio-0002

- 2 S/PDIF-out header (1*4) for ALC888S-VC sku
- 1 front panel audio header (2*5)

LAN

- MAC Controller: ICH10R
- PHY: Intel Boazman 82567V PCI-E Giga LAN

USB ports

- Controller: Intel ICH10R
- Ports Quantity: 12
 - 4 back panel ports
 - On-board: 4 2*5 headers (8 ports)
 - 4 ports for front daughter board
 - Connector Pin: standard Intel FPIO pin definition
- Data transfer rate support: USB 2.0/1.1

Extension slot

- Support one PCIe x 16 slot
- Support two PCIe x 1 slots
- Support one PCIe x 2 slot

Total I/O ports

- 1 PS/2 Keyboard port,
- 1 PS/2 Mouse port
- 1 D-Sub VGA port
- 1 HDMI VGA port
- 1 RJ45 LAN port
- 1 1394 port
- 4 USB ports
- 7.1 channel phone jack
- One HD headphone output in front bezel
- One MIC-IN in front bezel
- Multi-in-1 card reader (SD, MMC, Mini-SD, Micro-SD (T-flash), RS-MMC, Mobile -MMC, MMC-micro, MS, MS-PRO, MS Duo, MS-PRO Due, Micro-MS(M2), xD type M and Type H card, CF type I and II, Microdrive)

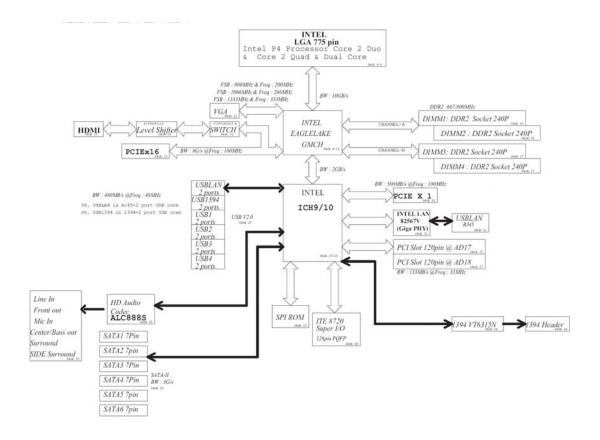
System BIOS

- Size: 2Mb Use SPI Flash
- AMI Kernel with Acer skin

Power supply

- 500W/300W/250W in stable mode
- Active PFC 220V for EMEA and China
- Non-PFC 110V and 220V with select switch.
- Active PFC 220V with Energy Star 5.0

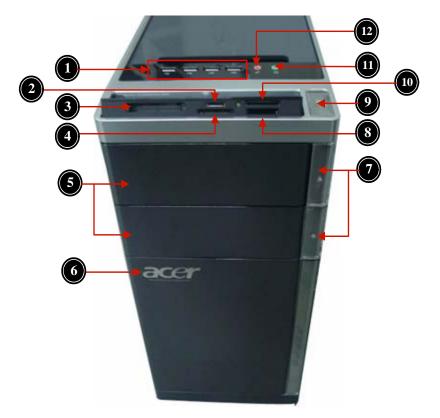
Block Diagram



System Components

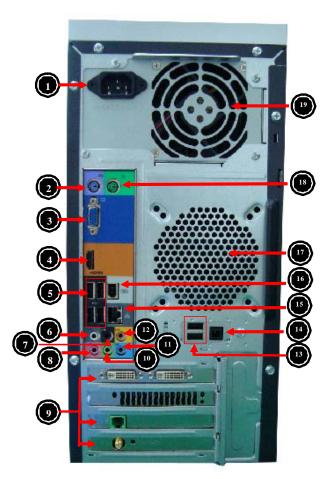
This section is a virtual tour of the system's interior and exterior components.

Front Panel



No.	Component
1	USB 2.0 ports
2	Micro SD/M2 slot
3	CF I/II (CompactFlash Type I/II) slot
4	XD(XD-PICTURE) slot
5	Optical drive
6	Acer logo
7	Optical drive button
8	SD(Secure Digital) solt
9	Power button
10	Memory stick PRO slot
11	Headphone/Speaker-out/line-out jack
12	Microphone-in jack

Rear Panel



No.	Component
1	Power connector
2	PS2 keyboard port
3	VGA port
4	HDMI port
5	USB 2.0 ports
6	Side Surround
7	Surround
8	Mic-in
9	Expansion slot (graphics card and TV tuner card and Mode card)
10	Line-out
11	Line-in
12	Center speaker/subwoofer jack
13	USB 2.0 ports
14	S/PDIF port
15	LAN connector
16	1394 port
17	System FAN
18	PS2 mouse port
19	Fan aperture

Hardware Specifications and Configurations

Processor

ltem	Specification
Processor Type	CPUs which complaint with Intel FSB 800/1066/1333 MHz CPUs
Socket Type	Intel Socket T LGA 755 pin
FSB	1333 MHz
Minimum operating speed	0 MHz (If Stop CPU Clock in Sleep State in BIOS Setup is set to Enabled.)

BIOS

ltem	Specification
BIOS code programer	AMI Kernel with Acer skin
BIOS version	P01-A0
BIOS ROM type	SPI ROM
BIOS ROM size	2Mb
Support protocol	SMBIOS(DMI)2.4/DMI2.0
	Support BBS spec 1st priority: HDD 2nd priority: CD-ROM 3th priority: Removable Device 4th priority: LAN
Support to LS-120 drive	YES
Support to BIOS boot block feature	YES

IOS Hotkey List

Hotkey	Function	Description
Del	Enter BIOS Setup Utility	Press while the system is booting to enter BIOS Setup Utility.

Main Board Major Chips

ltem	Specification
North Bridge	Intel G43
South Bridge	Intel ICH10R
Audio controller	HD Audio codec ALC888S-VS
LAN controller	MAC controller: Intel ICH10R / PHY: Intel Boazman 82567V PCI-E Giga LAN
HDD controller	Intel ICH10R

Memory Combinations

Slot Slot	Memory	Total Memory
Slot 1	1MB,2GB	1G ~2GB
Slot 2	1MB,2GB	1G ~2GB
Slot 3	1MB,2GB	1G ~2GB
Slot 4	1MB,2GB	1G ~2GB
Maximum System Memory Supported		1G~8GB

System Memory

Item	Specification
Memory slot number	4 slot
Support Memory size per socket	1GB/2GB
Support memory type	DDRII
Support memory interface	DDRII 667/800MHz
Support memory voltage	1.5V
Support memory module package	240-pin DDRII
Support to parity check feature	Yes
Support to error correction code (ECC) feature	No
Memory module combinations	You can install memory modules in any combination as long as they match the above specifications.

Audio Interface

Item	Specification
Audio controller	Intel ICH10
Audio controller type	ALC8862-VC2-GR
Audio channel	codec 5.1
Audio function control	Νο
Mono or stereo	Stereo
Compatibility	The ALC888S-VC series support host audio controller from the Intel ICH series chipset, and also from any other HDA compatible audio controller. With EAX/ Direct Sound 3D/I3DL2/A3D compatibility, and excellent software utilities like environment sound emulation, multiple bands of software equalizer and dynamic range control, optional Dolby, Digital Live, DTS CONNECT, and Dolby Home Theater programs, provides an excellent home entertainment package and game experience for PC users.
Music synthesizer	Νο
Sampling rate	192KHz (max)
MPU-401 UART support	No
Microphone/Headphone jack	Supported

SATA Interface

ltem	Specification
SATA controller	JMB362-QGEZ0A
SATA controller resident bus	PCI bus
Number of SATA channel	SATA X 6
Support bootable CD-ROM	YES

USB Port

ltem	Specification	
Universal HCI	USB 2.0/1.1	
USB Class	Support legacy keyboard for legacy mode	
	6 back real ports 4 top bezel ports 2 ports for media card reader	

Environmental Requirements

ltem	Specification		
Temperature			
Operating	+5°C ~ +35°C		
Non-operating	-20 ~ +60°C (Storage package)		
Humidity	Humidity		
Operating	15% to 80% RH		
Non-operating	10% to 90% RH		
Vibration			
Operating (unpacked)	5 ~ 500 Hz: 2.20g RMS random, 10 minutes per axis in all 3 axes. 5 ~500 Hz: 1.09g RMS random, 1 hour per axis in all 3 axes.		

Power Management

Devices	S1	S3	S4	S5
Power Button	V	V	V	V
USB Keyboard/Mouse	V	V	N/A	N/A
PME	Disabled	Disabled	Disabled	Disabled
RCT	Disabled	Disabled	Disabled	Disabled
WOR	Disabled	Disabled	Disabled	Disabled

Devices wake up from S3 should be less than.

• Devices wake up from S5 should be less than 10 seconds.

Power Management Function(ACPI support function)

Device Standby Mode

- Independent power management timer for hard disk drive devices(0-15 minutes, time step=1minute).
- Hard Disk drive goes into Standby mode(for ATA standard interface).
- Disable V-sync to control the VESA DPMS monitor.
- Resume method:device activated (keyboard for DOS, keyboard &mouse for Windows.
- Resume recovery time 3-5sec

Global Standby Mode

- Global power management timer(2-120minutes,time step=10minute).
- Hard disk drive goes into Standby mode(for ATA standard interface).
- Disable H-sync and V-sync signals to control the VESA DPMS monitor.
- Resume method: Resume to original state by pushing external switch Button,modem ring in,keyboard an mouse for APM mode.
- Resume recovery time :7-10sec

Suspend Mode

- Independent power management timer(2-120minutes,time step=10minute)or pushing extern switch button.
- CPU goes into SMM
- CPU asserts STPCLK# and goes into the Stop Grant State.
- LED on panel turns amber colour.
- Hard disk drive goes into SLEEP mode (for ATA standard interface).
- Disable H-sync and V-sync signals to control the VESA DPMS monitor.
- Ultra I/O and VGA chip go into power saving mode.
- Resume method: Resume to original state by pushing external switch Button,modem ring in,keyboard an mouse for APM mode
- Return to original state by pushing external switch button,modem ring in and USB keyboard for ACPI mode.

ACPI

- ACPI specification 1.0b
- S0,S1,S2 and S5 sleep state support.
- On board device power management support.
- On board device configuration support.

System Utilities

CMOS Setup Utility

CMOS setup is a hardware configuration program built into the system ROM, called the complementary metaloxide semiconductor (CMOS) Setup Utility. Since most systems are already properly configured and optimized, there is no need to run this utility. You will need to run this utility under the following conditions.

- · When changing the system configuration settings
- · When redefining the communication ports to prevent any conflicts
- When modifying the power management configuration
- · When changing the password or making other changes to the security setup
- When a configuration error is detected by the system and you are prompted ("Run Setup" message) to make changes to the CMOS setup
- **NOTE:** If you repeatedly receive Run Setup messages, the battery may be bad. In this case, the system cannot retain configuration values in CMOS. Ask a qualified technician for assistance.

CMOS setup loads the configuration values in a battery-backed nonvolatile memory called CMOS RAM. This memory area is not part of the system RAM which allows configuration data to be retained when power is turned off.

Before you run the CMOS Setup Utility, make sure that you have saved all open files. The system reboots immediately after you close the Setup.

NOTE: CMOS Setup Utility will be simply referred to as "BIOS", "Setup", or "Setup utility" in this guide.

The screenshots used in this guide display default system values. These values may not be the same those found in your system.

Entering CMOS setup

1. Turn on the server and the monitor.

If the server is already turned on, close all open applications, then restart the server.

2. During POST, press Delete.

If you fail to press **Delete** before POST is completed, you will need to restart the server.

The Setup Main menu will be displayed showing the Setup's menu bar. Use the left and right arrow keys to move between selections on the menu bar.

Navigating Through the Setup Utility

Use the following keys to move around the Setup utility.

- Left and Right arrow keys Move between selections on the menu bar.
- **Up** and **Down** arrow keys Move the cursor to the field you want.
- PgUp and PgDn keys Move the cursor to the previous and next page of a multiple page menu.
- **Home** Move the cursor to the first page of a multiple page menu.
- End Move the cursor to the last page of a multiple page menu.
- + and keys Select a value for the currently selected field (only if it is user-configurable). Press
 these keys repeatedly to display each possible entry, or the Enter key to choose from a pop-up
 menu.

NOTE: Grayed-out fields are not user-configurable.

• Enter key – Display a submenu screen.

NOTE: Availability of submenu screen is indicated by a (>).

- **Esc** If you press this key:
 - On one of the primary menu screens, the Exit menu displays.
 - On a submenu screen, the previous screen displays.
 - When you are making selections from a pop-up menu, closes the pop-up without making a selection.
- **F1** Display the General Help panel.
- **F6** Press to load optimized default system values.
- F7 Press to load fail-safe default system values.
- **F10** Save changes made the Setup and close the utility.

Setup Utility Menus

CMOS Setup Utility - Copyright (C)	1985-2009, American Megatrends, Inc.
 Product Information Standard CMOS Features Advanced BIOS Features Advanced Chipset Features Integrated Peripherals Power Management Setup 	 PC Health Status Frequency/Voltage Control BIOS Security Features Load Default Settings Save & Exit Setup Exit Without Saving
F1:General Help F9	-/:Value F10:Save ESC:Exit :Load Default Settings 09, American Megatrends, Inc.

The Setup Main menu includes the following main setup categories.

Parameter	Description	
Product Information	This page shows the relevant information of the main board	
Standard CMOS Features	This setup page includes all the items in standard compatible BIOS	
Advanced BIOS Features	This setup page includes all the items of Award special enhanced features	
Advanced Chipset Features	This setup page includes all advanced chipset features	
Integrated Peripherals	This setup page includes all onboard peripherals	
Power Management Setup	This setup page includes all the items of Green function features	
PC Health Status	This setup page is the System auto detect Temperature, voltage, and fan speed	
Frequency/Voltage Control	This setup page is the System Frequency setup	
BIOS Security Features	Change, set or disable password. It allows you to limit access to the System	
Load Default Setting	Load Default Setting indicates the value of the system parameters which the system would be in best performance configuration	
Save & Exit Setup	Save CMOS value settings to CMOS and exit setup	
Exit Without Saving	Abandon all CMOS value changes and exit setup	

In the descriptive table following each of the menu screenshots, settings in **boldface** are the default and suggested settings.

Product Information

The Product Information menu displays basic information about the system. These entries are for your reference only and are not user-configurable.



F1:General Help F9:Load Default Settings

Parameter	Description	
Processor Type	Type of CPU installed on the system.	
Processor Speed	Speed of the CPU installed on the system.	
System Memory	Total size of system memory installed on the system.	
Product Name	Product name of the system.	
System Serial Number	Serial number of the system.	
System BIOS Version	Version number of the BIOS setup utility.	
BIOS Release Date	Date when the BIOS setup utility was released	
Asset Tag Number	Asset tag number of this system.	

Standard CMOS Features

CMOS Setup Utility	- Copyright (C) 1985-2009, Am Standard CMOS Features	erican Megatrends, Inc.
System Date System Time	[Tue 08/18/2009] [14:50:15]	Help Item
Halt On	[All, but Keyboard]	Use [ENTER], [TAB] or [SHIFT-TAB] to select a field.
		Use [+] or [-] to configure system Date.
ti++:Mouro	Fatan D-1-4	
F1:Gen	Enter:Select +/-/:Ualue F10 eral Help F9:Load Defa	0:Save ESC:Exit ault Settings

Parameter	Description	Option	
System Date	Set the date following the weekday-month-day-year format.	Set the date following the weekday-month-day-year format.	
System Time	Set the system time following the hour-minute-second format.		
Halt On	Determines whether the system will stop for an error during the POST.	All, But Keyboard	
		No Errors	
		All Errors	

Advanced BIOS Feature

CMOS Setup Utility - Copyright (C) 1985-2009, American Megatrends, Inc. Advanced BIOS Features			
Quick Boot Quiet Boot 1st Boot Device 2nd Boot Device 3rd Boot Device 4th Boot Device • Hard Disk Drive Priority • Optical Disk Drive Priority • Removable Device Priority Bootup Num-Lock USB Beep Message	A PROPERTY AND A PROPERTY AND A	Help Item Allows BIOS to skip certain tests while booting. This will decrease the time meeded to boot the system.	
14↔:Move Enter:Select +/-/:Value F10:Save ESC:Exit F1:General Help F9:Load Default Settings			

Parameter	Description	Option
Quick Boot	Allows you to decrease the time it takes to boot the computer by shortening or skipping certain standard booting process.	
Quiet Boot	When enabled, the BIOS splash screen displays during startup.	Disabled Enabled
	When disabled, the diagnostic screen displays during startup.	Disabled
1st/2nd/3rd/4th Boot Device	Specifies the boot order from the available devices.	
Hard Disk Drive Priority	Press Enter to access the Hard Disk Drive Priority submenu and specify the boot device priority sequence from available hard drives.	
Optical Disk Drives Priority	Press Enter to access the Optical Disk Drive Priority submenu and specify the boot device priority sequence from available CD/DVD drives.	
Removable Device Priority	Press Enter to access the Removable Device Priority submenu and specify the boot device priority sequence from available removable drives.	
Bootup Num-Lock	Selects power on state for Num Lock.	On Off
USB Beep Message	Enables or disables BIOS to display error beeps or messages during USB device enumeration.	Disabled Enabled

Advanced Chipset Features

CMOS Setup Utility - Copyright (C) 1985-2009, American Megatrends, Inc. Advanced Chipset Features			
Intel EIST Intel XD Bit Intel VT Memory Hole Remapping Primary Video	[Enabled] [Enabled] [Enabled] [Enabled] [Auto]	Help Item Disable: Disable EIST Enable: Enable EIST	
14↔:Move Enter:Select +/-/:Ualue F10:Save ESC:Exit F1:General Help F9:Load Default Settings			

Parameter	Description	Option
Intel EIST	When enabled, this feature allows the OS to reduce power consumption.	Enabled
	When disabled, the system operates at maximum CPU speed.	Disabled
Intel XD Bit	When enabled, the processor disables code execution when a worm	Enabled
	attempts to insert a code in the buffer preventing damage and worm propagation.	Disabled
	When disabled, the processor forces the Execute Disable (XD) Bit feature flag to always return to 0.	
Intel VT	Enables or disables the Virtualization Technology (VT) availability. If	Enabled
	enabled, a virtual machine manager (VMM) can utilize the additional hardware virtualization capabilities provided by this technology.	Disabled
	Note: A full reset is required to change the setting.	
Memory Hole Remapping	Enables or disables remapping of overlapped PCI memory above the total	Enabled
	physical memory.	Disabled
Primary Video	Select a graphic controller as a primary boot device.	Auto
		PCIE
		Onboard VGA

Integrated Peripherals

CMOS Setup Utility - Copy	right (C) 1985-2009, A Integrated Peripherals	American Megatrends, Inc. B
Onboard SATA Controller Onboard SATA Mode Onboard USB Controller Legacy USB Support USB Storage Emulation Onboard Audio Controller Onboard LAN Controller Onboard LAN Option ROM Onboard 1394 Controller	(Enabled) (RAID) (Enabled) (Enabled) (Auto) (Enabled) (Disabled) (Enabled) (Enabled)	Help Item Options Disabled Enabled
†∔⇔:Move Ente: F1:General H		F10:Save ESC:Exit

Parameter	Description	Option
Onboard SATA Controller	Enables or disables the onboard SATA controller.	Enabled
		Disabled
Onboard SATA Mode	Select an operating mode for the onboard SATA.	RAID
		Native IDE
Onboard USB Controller	Enables or disables the onboard USB controller.	Enabled
		Disabled
Legacy USB Support	Enables or disables support for legacy USB devices.	Enabled
		Disabled
USB Storage Emulation	Enables or disables support for legacy USB devices.	Enabled
		Disabled
Onboard Audio Controller	Enables or disables the onboard audio controller.	Enabled
		Disabled
Onboard LAN Controller	Enables or disables the onboard LAN controller.	Enabled
		Disabled
Onboard LAN Option ROM	Enables or disables the load of embedded option ROM for onboard	Enabled
	network controller.	Disabled
Onboard 1394 Controller	Enables or disables the onboard 1394 controller.	Enabled
		Disabled

Power Management Setup

CMOS Setup Utility - Copyright (C) 1985-2009, American Megatrends, Inc. Power Management Setup		
ACPI Suspend Mode Deep Power Off Mode Power On by RTC Alarm Power On by PCIE Devices Power On by PCI Devices Wake Up by PS/2 KB/Mouse Wake Up by USB KB/Mouse Restore On AC Power Loss	(S3 (STR)) (Enabled) (Disabled) (Disabled) (Disabled) (Enabled) (Enabled) (Last State)	Help Item Select the ACPI state used for System Suspend.
1↓↔:Move Enter F1:General H	r:Select +/-/:Value	F10:Save ESC:Exit Default Settings

Parameter	Description	Option
ACPI Suspend Mode	Select an ACPI state.	S3 (STR)
		S1 (POS)
Deep power off mode	Select the Deep power off Mode	Enabled
		Disabled
Power On by RTC Alarm	Enables or Disables to wake up the system by RTC Alarm Function	Enabled
		Disabled
Power On by PCIE Devices	Enables or disables to wake up the system from a power saving mode through an event on PCI Express device.	Enabled
		Disabled
Power On by PCI Devices	Enables or disables to wake up the system from a power saving mode	Enabled
	through an event on PCI device.	Disabled
Wake Up by PS/2 KB/	Enables or disables to wake up the system from a power saving mode	Enabled
Mouse	using a PS2 keyboard or mouse.	Disabled
Wake Up by USB KB/	If enabled, press any key or click the mouse will wake system from S1/	Enabled
Mouse	S3 state.	Disabled
Restore On AC Power Loss	Enables or disables the system to reboot after a power failure or	Power Off
	interrupt occurs.	Power On
		Last State

PC Health Status

Parameter Smart FAN

CPU Temperature(PECI Mode) System Temperature	:38 :53°C/127°F	Help Item
GSUE Fan Speed System Fan Speed CPU Core +1.1U •3.30U •5.00U •12.0U 5USB UBAT Smart Fan	:1173 RPM :N/A :1.088 U :1.120 U :3.376 U :4.999 U :12.096 U :4.972 U :3.200 U [Enabled]	Options Disabled Enabled
t↓↔:Move Enter F1:General He	r:Select +/-/:Value elp F9:Load	F10:Save ESC:Exit Default Settings

Chapter	2
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Disabled

Frequency/Voltage Control

CMOS Setup Utility - Copyright (C) 1985-2009, American Megatrends, Inc. Frequency/Voltage Control		
Enable Clock to All DIMM/PCI [Enabled] Spread Spectrum [Enabled]	Help Item	
Spread Spectrum	Options	
	Disabled Enabled	
	F10:Save ESC:Exit Default Settings	

 Parameter
 Description
 Option

 Enable Clock to All DIMM/ PCI
 Enables or disables control the clock to all DIMM/PCI
 Enabled Disabled

 Spread Spectrum
 Enables or disables the reduction of the mainboard's EMI. Note: Remember to disable the Spread Spectrum feature if you are overclocking. A slight jitter can introduce a temporary boost in clock speed causing the overclocked processor to lock up.
 Disabled

BIOS Security Features



Parameter	Description	
Supervisor Password	Indicates the status of the supervisor password.	
User Password	Indicates the status of the user password.	
Change Supervisor Password		

Setting a supervisor password

- Use the up/down arrow keys to select Change Supervisor Password menu then press Enter. A password box will appear.
- 2. Type a password then press Enter.

The password may consist up to six alphanumeric characters (A-Z, a-z, 0-9)

- 3. Retype the password to verify the first entry then press Enter again.
- 4. Press F10.
- 5. Select Yes to save the new password and close the Setup Utility.

Changing the supervisor password

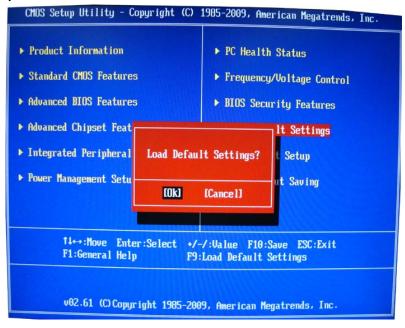
- 1. Use the up/down arrow keys to select Change Supervisor Password menu then press Enter.
- 2. Type the original password then press Enter.
- 3. Type a new password then press Enter.
- 4. Retype the password to verify the first entry then press Enter again.
- 5. Press F10.
- 6. Select Yes to save the new password and close the Setup Utility.

Removing a supervisor password

- 1. Use the up/down arrow keys to select Change Supervisor Password menu then press Enter.
- 2. Enter the current password then press Enter.
- 3. Press Enter twice without entering anything in the password fields.

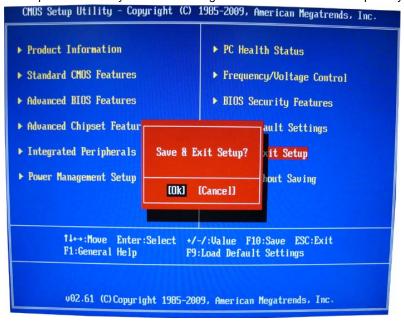
Load Default Settings

The Load Default Settings menu allows you to load the default settings for all BIOS setup parameters. Setup defaults are quite demanding in terms of resources consumption. If you are using low-speed memory chips or other kinds of low-performance components and you choose to load these settings, the system might not function properly.



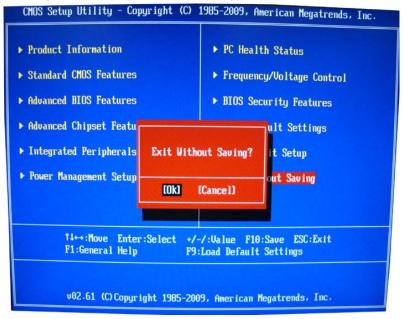
Save & Exit Setup

The Save & Exit Setup menu allows you to save changes made and close the Setup Utility.



Exit Without Saving

The Exit Without Saving menu allows you to discard changes made and close the Setup Utility.



System Disassembly

This chapter contains step-by-step procedures on how to disassemble the desktop computer for maintenance and troubleshooting.

Disassembly Requirements

To disassemble the computer, you need the following tools:

- · Wrist grounding strap and conductive mat for preventing electrostatic discharge
- Flat-blade screwdriver
- Philips screwdriver
- Hex screwdriver
- Plastic flat-blade screwdriver
- Plastic tweezers

NOTE: The screws for the different components vary in size. During the disassembly process, group the screws with the corresponding components to avoid mismatch when putting back the components.

Pre-disassembly Procedure

Before proceeding with the disassembly procedure, perform the steps listed below:

- 1. Turn off the system and all the peripherals connected to it.
- **2.** Unplug the power cord from the power outlets.
- **3.** Unplug the power cord from the system.
- 4. Unplug all peripheral cables from the system.
- 5. Place the system unit on a flat, stable surface.

Removing the Side Panel

1. Remove the two screws located on the rear edge of the side panel.



- 2. Slide the side panel toward the back of the chassis until the tabs on the cover disengage with the slots on the chassis.
- 3. Lift the side panel away from the server and put it aside for reinstallation later.



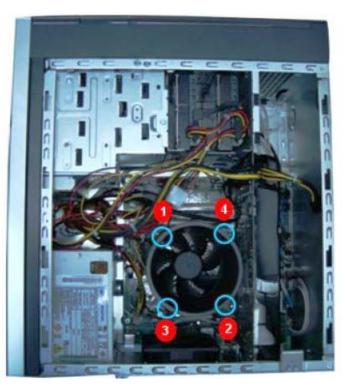
Removing the Heat Sink Fan Assembly

WARNING:The heat sink becomes very hot when the system is on. NEVER touch the heat sink with any metal or with your hands.

1. disconnect the fan cable from the mainboard.



2. Use a long-nosed screwdriver to loosen the four screws on the heat sink, in the order as shown below.



3. Lift the heat sink fan assembly away from the mainboard.

Removing the Processor

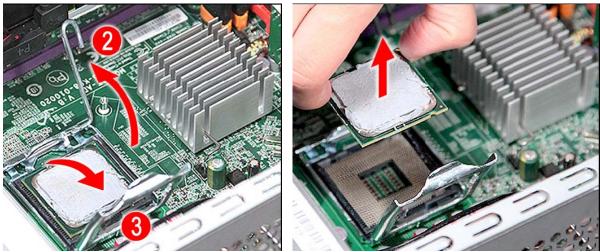
IMPORTANT:Before removing a processor from the mainboard, make sure to create a backup file of all important data.

WARNING:The processor becomes very hot when the system is on. Allow it to cool off first before handling.

1. Release the load lever (1).



- 2. Pull the load lever to the fully open, upright position (2) and lift the load plate (3).
- 3. Pull out the processor from the socket.

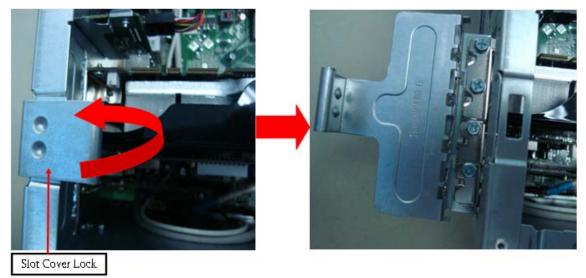


IMPORTANT: If you are going to install a new processor, note the arrow on the corner to make sure the processor is properly oriented over the socket

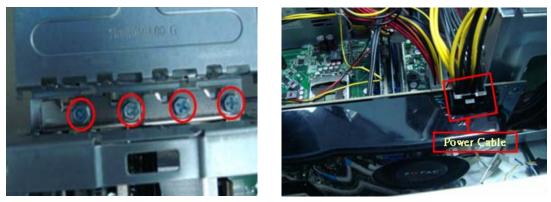


Removing the VGA Card

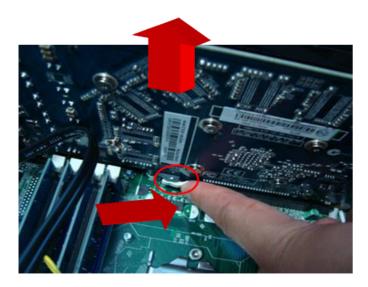
1. Release the Slot cover lock.



- 2. Remove the screw from chassis.
- **3.** Disconnect the power cables from the VGA card.

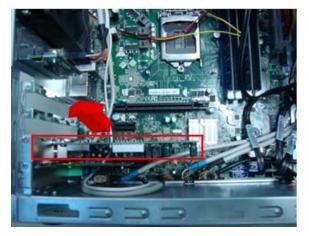


4. One finger Press the clip and the same time Gently pull the card to remove it from the mainboard.



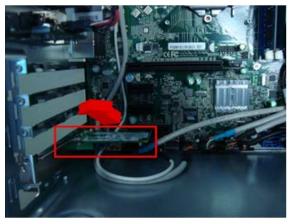
Removing the TV Card

1. Gently pull the TV card to remove it from the mainboard.



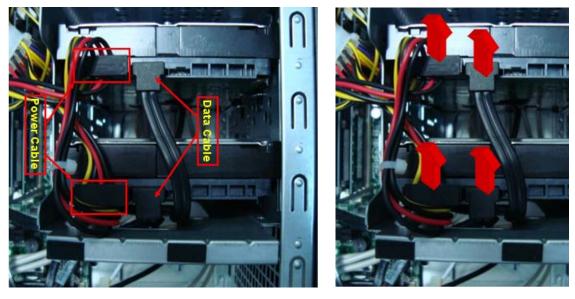
Removing the Mode Card

1. Gently pull the Mode card to remove it from the mainboard.

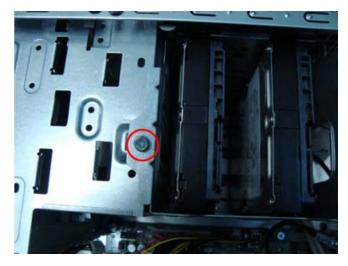


Removing the Hard Disk Drive

1. Disconnect the data and power cables from the rear of the optical drive and the mainboard.



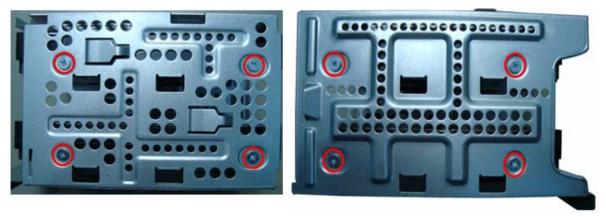
- 2. Remove the HDD bracket
 - a. Remove the screw that secures the HDD bracket to the ODD bracket.



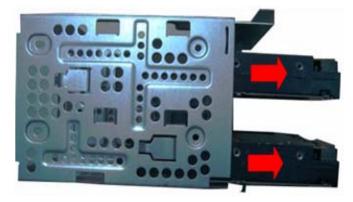
b. Lift the bracket up and turn it over.



- 3. Remove the HDD module
 - **a.** Remove the eight screws secure the HDD module to the HDD bracket.

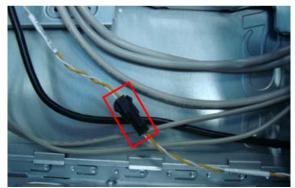


b. Slide the HDD out of the bracket.

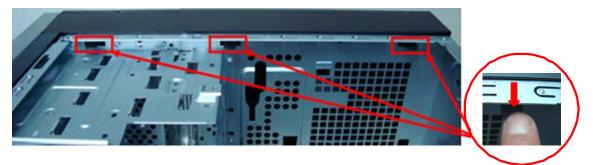


Removing the Front Bezel

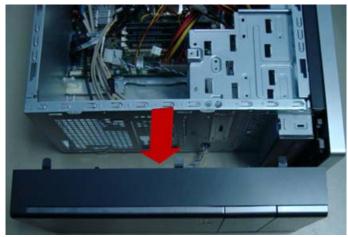
- 1. Remove the side panel. Refer to the previous section for instructions.
- 2. Disconnect the LED cable.



3. Release the front bezel from the chassis interior.

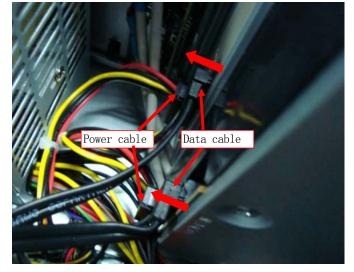


4. Pull the bezel away from the chassis.

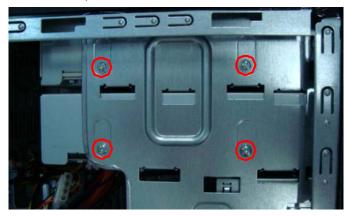


Removing the Optical Drive

1. Disconnect the data and power cables from the rear of the optical drive.



2. Remove Four screw from the optical drive.

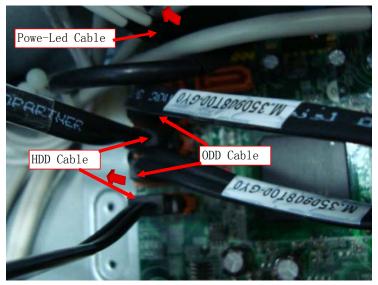


3. Pull the drive out of the drive.

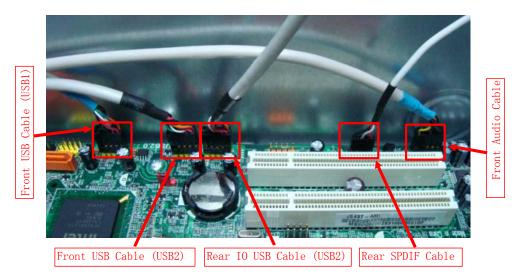


Removing Cables

- 1. Remove power switch and LED cables from slot of M/B
- 2. Remove HDD Data and ODD Data cables from slot of M/B.



- 3. Remove USB1/2/3 cable from M/B.
- 4. Remove SPDIF cable and Audio cable from M/B



Remove System FAN

1. Remove System FAN cable from M/B.



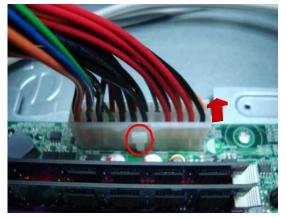
2. Release four screws according to the following picture.

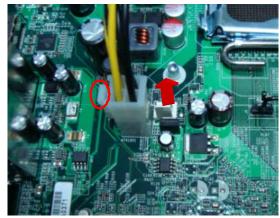


3. Take off the system fan from chassis.

Removing the Power Supply

1. Disconnect the 24-pin and 4-pin power supply cables from the mainboard.





2. Remove the four screw that secures the power supply to the chassis.



3. Lift the power supply module out of the chassis.



Removing the Memory Modules

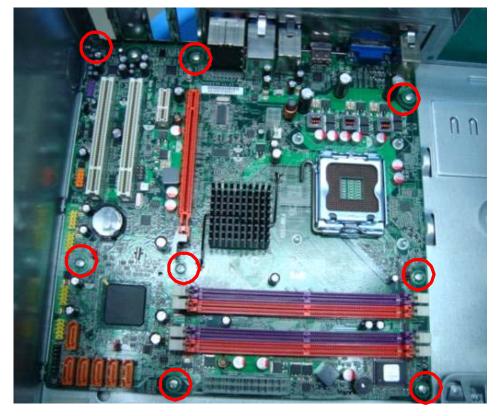
IMPORTANT:Before removing any DIMM from the memory board, make sure to create a backup file of all important data.

- 1. Press the holding clips on both sides of the DIMM slot outward to release the DIMM.
- 2. Gently pull the DIMM upward to pull it away from the M/B.



Removing the Mainboard

1. Remove the eight screws that secure the mainboard to the chassis.



2. Lift the board from the chassis.



System Troubleshooting

Please refer to generic troubleshooting guide for troubleshooting information relating to following topics:

- Power-On Self-Test (POST)
- POST Check Points
- POST Error Messages List
- Error Symptoms List

Power-On Self-Test (POST)

Each time you turn on the system, the Power-on Self Test (POST) is initiated. Several items are tested during POST, but is for the most part transparent to the user.

The Power-On Self Test (POST) is a BIOS procedure that boots the system, initializes and diagnoses the system components, and controls the operation of the power-on password option. If POST discovers errors in system operations at power-on, it displays error messages on screen, generates a check point code at port 80h or even halts the system if the error is fatal.

NOTE: When Post executes a task, it uses a series of preset numbers called check points to belatched atport 80h, indicating the stages it is currently running. This latch can be read and shown on a debug board. The following table describes the BIOS common tasks carried out by POST. Each task is denoted by an unique check point number. For other unique check point numbers that are not listed in the table, refer to the corresponding product service guide.

Post Checkpoints List: The list may vary accordingly depending on your BIOS

Bootblock Initialization Code Checkpoints

Checkpoint	Description
Before D0	If boot block debugger is enabled, CPU cache-as-RAM functionality is enabled at this point. Stack will be enabled from this point.
D0	Early Boot Strap Processor (BSP) initialization like microcode update, frequency and other CPU critical initialization. Early chipset initialization is done.
D1	Early super I/O initialization is done including RTC and keyboard controller. Serial port is enabled at this point if needed for debugging. NMI is disabled. Perform keyboard controller BAT test. Save power-on CPUID value in scratch CMOS. Go to flat mode with 4GB limit and GA20 enabled.
D2	Verify the boot block checksum. System will hang here if checksum is bad.
D3	Disable CACHE before memory detection. Execute full memory sizing module. If memory sizing module not executed, start memory refresh and do memory sizing in Boot block code. Do additional chipset initialization. Re-enable CACHE. Verify that flat mode is enabled.
D4	Test base 512KB memory. Adjust policies and cache first 8MB. Set stack.
D5	Bootblock code is copied from ROM to lower system memory and control is given to it. BIOS now executes out of RAM. Copies compressed boot block code to memory in right segments. Copies BIOS from ROM to RAM for faster access. Performs main BIOS checksum and updates recovery status accordingly.
D6	Both key sequence and OEM specific method is checked to determine if BIOS recovery is forced. If BIOS recovery is necessary, control flows to checkpoint E0. See Bootblock Recovery Code Checkpoints section of document for more information.
D7	Restore CPUID value back into register. The Bootblock-Runtime interface module is moved to system memory and control is given to it. Determine whether to execute serial flash.
D8	The Runtime module is uncompressed into memory. CPUID information is stored in memory.
D9	Store the Uncompressed pointer for future use in PMM. Copying Main BIOS into memory. Leaves all RAM below 1MB Read-Write including E000 and F000 shadow areas but closing SMRAM.

Checkpoint	Description
DA	Restore CPUID value back into register. Give control to BIOS POST (ExecutePOSTKernel). See POST Code Checkpoints section of document for more information.
DC	System is waking from ACPI S3 state
E1-E8 EC-EE	OEM memory detection/configuration error. This range is reserved for chipset vendors & system manufacturers. The error associated with this value may be different from one platform to the next.

Bootblock Recovery Code Checkpoints

Checkpoint	Description
E0	Initialize the floppy controller in the super I/O. Some interrupt vectors are initialized. DMA controller is initialized. 8259 interrupt controller is initialized. L1 cache is enabled.
E9	Set up floppy controller and data. Attempt to read from floppy.
EA	Enable ATAPI hardware. Attempt to read from ARMD and ATAPI CDROM.
ЕВ	Disable ATAPI hardware. Jump back to checkpoint E9.
EF	Read error occurred on media. Jump back to checkpoint EB.
F0	Search for pre-defined recovery file name in root directory.
F1	Recovery file not found.
F2	Start reading FAT table and analyze FAT to find the clusters occupied by the recovery file.
F3	Start reading the recovery file cluster by cluster.
F5	Disable L1 cache.
FA	Check the validity of the recovery file configuration to the current configuration of the flash part.
FB	Make flash write enabled through chipset and OEM specific method. Detect proper flash part. Verify that the found flash part size equals the recovery file size.
F4	The recovery file size does not equal the found flash part size.
FC	Erase the flash part
FD	Program the flash part.
FF	The flash has been updated successfully. Make flash write disabled. Disable ATAPI hardware. Restore CPUID value back into register. Give control to F000 ROM at F000:FFF0h.

POST Code Checkpoints

Checkpoint	Description
03	Disable NMI, Parity, video for EGA, and DMA controllers. Initialize BIOS, POST, Runtime data area. Also initialize BIOS modules on POST entry and GPNV area. Initialized CMOS as mentioned in the Kernel Variable "wCMOSFlags."

Checkpoint	Description
04	Check CMOS diagnostic byte to determine if battery power is OK and CMOS checksum is OK. Verify CMOS checksum manually by reading storage area. If the CMOS checksum is bad, update CMOS with power-on default values and clear passwords. Initialize status register A.Initializes data variables that are based on CMOS setup questions. Initializes both the 8259 compatible PICs in the system
05	Initializes the interrupt controlling hardware (generally PIC) and interrupt vector table.
06	Do R/W test to CH-2 count reg. Initialize CH-0 as system timer. Install the POSTINT1Ch handler. Enable IRQ-0 in PIC for system timer interrupt.Traps INT1Ch vector to "POSTINT1ChHandlerBlock."
07	Fixes CPU POST interface calling pointer.
08	Initializes the CPU. The BAT test is being done on KBC. Program the keyboard controller command byte is being done after Auto detection of KB/MS using AMI KB-5.
C0	Early CPU Init Start Disable Cache ?C Init Local APIC
C1	Set up boot strap processor Information
C2	Set up boot strap processor for POST
C5	Enumerate and set up application processors
C6	Re-enable cache for boot strap processor
C7	Early CPU Init Exit
0A	Initializes the 8042 compatible Key Board Controller
0B	Detects the presence of PS/2 mouse.
0C	Detects the presence of Keyboard in KBC port.
0E	Testing and initialization of different Input Devices. Also, update the Kernel Variables.Traps the INT09h vector, so that the POST INT09h handler gets control for IRQ1. Uncompress all available language, BIOS logo, and Silent logo modules.
13	Early POST initialization of chipset registers.
24	Uncompress and initialize any platform specific BIOS modules. GPNV is initialized at this checkpoint.
30	Initialize System Management Interrupt.
2A	Initializes different devices through DIM. See DIM Code Checkpoints section of document for more information.
2C	nitializes different devices. Detects and initializes the video adapter installed in the system that have optional ROMs.
2E	Initializes all the output devices.
31	Allocate memory for ADM module and uncompress it. Give control to ADM module for initialization. Initialize language and font modules for ADM. Activate ADM module.
33	Initializes the silent boot module. Set the window for displaying text information.
37	Displaying sign-on message, CPU information, setup key message, and any OEM specific information.

Checkpoint	Description
38	Initializes different devices through DIM. See DIM Code Checkpoints section of document for more information. USB controllers are initialized at this point.
39	Initializes DMAC-1 & DMAC-2.
3A	Initialize RTC date/time.
3B	Test for total memory installed in the system. Also, Check for DEL or ESC keys to limit memory test. Display total memory in the system.
3C	Mid POST initialization of chipset registers.
40	Detect different devices (Parallel ports, serial ports, and coprocessor in CPU, ?? etc.) successfully installed in the system and update the BDA, EBDA??etc.
50	Programming the memory hole or any kind of implementation that needs an adjustment in system RAM size if needed.
52	Updates CMOS memory size from memory found in memory test. Allocates memory for Extended BIOS Data Area from base memory.
60	Initializes NUM-LOCK status and programs the KBD typematic rate.
75	Initialize Int-13 and prepare for IPL detection.
78	Initializes IPL devices controlled by BIOS and option ROMs.
7A	Initializes remaining option ROMs.
7C	Generate and write contents of ESCD in NVRam.
84	Log errors encountered during POST.
85	Display errors to the user and gets the user response for error.
87	Execute BIOS setup if needed / requested. Check boot password if installed.
8C	Late POST initialization of chipset registers.
8D	Build ACPI tables (if ACPI is supported)
8E	Program the peripheral parameters. Enable/Disable NMI as selected
90	Late POST initialization of system management interrupt.
A0	Check boot password if installed.
A1	Clean-up work needed before booting to OS.
A2	Takes care of runtime image preparation for different BIOS modules. Fill the free area in F000h segment with 0FFh. Initializes the Microsoft IRQ Routing Table. Prepares the runtime language module. Disables the system configuration display if needed.
A4	Initialize runtime language module. Display boot option popup menu.
A7	Displays the system configuration screen if enabled. Initialize the CPU??s before boot, which includes the programming of the MTRR??s.
A8	Prepare CPU for OS boot including final MTRR values.
A9	Wait for user input at config display if needed.
AA	Uninstall POST INT1Ch vector and INT09h vector. Deinitializes the ADM module.
AB	Prepare BBS for Int 19 boot.

Checkpoint	Description
AC	End of POST initialization of chipset registers.
B1	Save system context for ACPI.
00	Passes control to OS Loader (typically INT19h).
61-70	OEM POST Error. This range is reserved for chipset vendors & system manufacturers. The error associated with this value may be different from one platform to the next.

DIM Code Checkpoints

Checkpoint	Description
2A	Initialize different buses and perform the following functions: Reset, Detect, and Disable (function 0); Static Device Initialization (function 1); Boot Output Device Initialization (function 2). Function 0 disables all device nodes, PCI devices, and PnP ISA cards. It also assigns PCI bus numbers. Function 1 initializes all static devices that include manual configured onboard peripherals, memory and I/O decode windows in PCI-PCI bridges, and noncompliant PCI devices. Static resources are also reserved. Function 2 searches for and initializes any PnP, PCI, or AGP video devices.
38	Initialize different buses and perform the following functions: Boot Input Device Initialization (function 3); IPL Device Initialization (function 4); General Device Initialization (function 5). Function 3 searches for and configures PCI input devices and detects if system has standard keyboard controller. Function 4 searches for and configures all PnP and PCI boot devices. Function 5 configures all onboard peripherals that are set to an automatic configuration and configures all remaining PnP and PCI devices.

ACPI Runtime Checkpoints

Checkpoint	Description
AC	First ASL check point. Indicates the system is running in ACPI mode.
AA	System is running in APIC mode
01, 02, 03, 04, 05	Entering sleep state S1, S2, S3, S4, or S5.
10, 20, 30, 40, 50	Waking from sleep state S1, S2, S3, S4, or S5

POST Error Messages List

If you cannot run the diagnostics program tests but did receive a POST error message, use "POST Error Messages List" to diagnose system problems. If you did not receive any error message, look for a description of your error symptoms in "Error Symptoms List"

- **NOTE:** When you have deemed it necessary to replace an FRU, and have done so, you must run a total system check to ensure that no other activity has been affected by the change. This system check can be done through the diagnostics program.
- **NOTE:** Check all power supply voltages, switch, and jumper settings before you replace the main board. Also check the power supply voltages if you have a "system no-power" condition.

If you are unable to correct the problem by using the "BIOS Messages List" table and "Error Symptoms List" table, go to "Undetermined Problems".

To diagnose a problem, first find the BIOS error messages in the left column. If directed to a check procedure, replace the FRU indicated in the check procedure. If no check procedure is indicated, the first Action/FRU listed in right column is the most likely cause.

Memory

Message Displayed	Description
Gate20 Error	The BIOS is unable to properly control the motherboard??s Gate A20 function, which controls access of memory over 1 MB. This may indicate a problem with the motherboard.
Multi-Bit ECC Error	This message will only occur on systems using ECC enabled memory modules. ECC memory has the ability to correct single-bit errors that may occur from faulty memory modules A multiple bit corruption of memory has occurred, and the ECC memory algorithm cannot correct it. This may indicate a defective memory module.
Parity Error	Fatal Memory Parity Error. System halts after displaying this message.
RAM R/W test failed	This message is displayed by the AMIBIOS8 when the RAM read/write test fails.
CMOS Memory Size Wrong	The base memory (memory below 1MB) size that is reported in the CMOS (offset 15h) mismatches with the actual size detected. This condition may occur when the hole is set at 512K base memory or when CMOS is corrupted.

Boot

Message Displayed	Description
Boot Failure	This is a generic message indicating the BIOS could not boot from a particular device. This message is usually followed by other information concerning the device.
Invalid Boot Diskette	A diskette was found in the drive, but it is not configured as a bootable diskette.
Drive Not Ready	The BIOS was unable to access the drive because it indicated it was not ready for data transfer. This is often reported by drives when no media is present.
A: Drive Error	The BIOS attempted to configure the A: drive during POST, but was unable to properly configure the device. This may be due to a bad cable or faulty diskette drive.

Message Displayed	Description
B: Drive Error	The BIOS attempted to configure the B: drive during POST, but was unable to properly configure the device. This may be due to a bad cable or faulty diskette drive.
Insert BOOT diskette in A:	The BIOS attempted to boot from the A: drive, but could not find a proper boot diskette.
Reboot and Select proper Boot device or Insert Boot Media in selected Boot device	BIOS could not find a bootable device in the system and/or removable media drive does not contain media.
NO ROM BASIC	This message occurs on some systems when no bootable device can be detected.

Storage Device

Message Displayed	Description	
Primary Master Hard Disk Error	ne IDE/ATAPI device configured as Primary Master could not be properly initialized by the OS. This message is typically displayed when the BIOS is trying to detect and configure E/ATAPI devices in POST.	
Primary Slave Hard Disk Error	he IDE/ATAPI device configured as Primary Slave could not be properly initialized by the IOS. This message is typically displayed when the BIOS is trying to detect and configure DE/ATAPI devices in POST.	
Secondary Master Hard Disk Error	The IDE/ATAPI device configured as Secondary Master could not be properly initialized by the BIOS. This message is typically displayed when the BIOS is trying to detect and configure IDE/ATAPI devices in POST.	
Secondary Slave Hard Disk Error	The IDE/ATAPI device configured as Secondary Slave could not be properly initialized by the BIOS. This message is typically displayed when the BIOS is trying to detect and configure IDE/ATAPI devices in POST.	
3rd Master Hard Disk Error	The IDE/ATAPI device configured as Master in the 3rd IDE controller could not be properly nitialized by the BIOS. This message is typically displayed when the BIOS is trying to detect and configure IDE/ATAPI devices in POST.	
3rd Slave Hard Disk Error	The IDE/ATAPI device configured as Slave in the 3rd IDE controller could not be properly initialized by the BIOS. This message is typically displayed when the BIOS is trying to detect and configure IDE/ATAPI devices in POST.	
4th Master Hard Disk Error	The IDE/ATAPI device configured as Master in the 4th IDE controller could not be properly initialized by the BIOS. This message is typically displayed when the BIOS is trying to detect and configure IDE/ATAPI devices in POST.	
4th Slave Hard Disk Error	The IDE/ATAPI device configured as Slave in the 4th IDE controller could not be properly initialized by the BIOS. This message is typically displayed when the BIOS is trying to detect and configure IDE/ATAPI devices in POST.	
5th Master Hard Disk Error	The IDE/ATAPI device configured as Master in the 5th IDE controller could not be properly initialized by the BIOS. This message is typically displayed when the BIOS is trying to detect and configure IDE/ATAPI devices in POST.	

Message Displayed	Description	
5th Slave Hard Disk Error	The IDE/ATAPI device configured as Slave in the 5th IDE controller could not be properly initialized by the BIOS. This message is typically displayed when the BIOS is trying to detect and configure IDE/ATAPI devices in POST.	
6th Master Hard Disk Error	The IDE/ATAPI device configured as Master in the 6th IDE controller could not be properly initialized by the BIOS. This message is typically displayed when the BIOS is trying to detect and configure IDE/ATAPI devices in POST.	
6th Slave Hard Disk Error	The IDE/ATAPI device configured as Slave in the 6th IDE controller could not be properly initialized by the BIOS. This message is typically displayed when the BIOS is trying to detect and configure IDE/ATAPI devices in POST.	
Primary Master Drive - ATAPI Incompatible	The IDE/ATAPI device configured as Primary Master failed an ATAPI compatibility test. This message is typically displayed when the BIOS is trying to detect and configure IDE/ ATAPI devices in POST.	
Primary Slave Drive - ATAPI Incompatible	The IDE/ATAPI device configured as Primary Slave failed an ATAPI compatibility test. This message is typically displayed when the BIOS is trying to detect and configure IDE/ATAPI devices in POST.	
Secondary Master Drive - ATAPI Incompatible	The IDE/ATAPI device configured as Secondary Master failed an ATAPI compatibility test. This message is typically displayed when the BIOS is trying to detect and configure IDE/ ATAPI devices in POST.	
Secondary Slave Drive - ATAPI Incompatible	The IDE/ATAPI device configured as Secondary Slave failed an ATAPI compatibility test. This message is typically displayed when the BIOS is trying to detect and configure IDE/ ATAPI devices in POST.	
3rd Master Drive - ATAPI Incompatible	The IDE/ATAPI device configured as Master in the 3rd IDE controller failed an ATAPI compatibility test. This message is typically displayed when the BIOS is trying to detect and configure IDE/ATAPI devices in POST.	
3rd Slave Drive - ATAPI Incompatible	The IDE/ATAPI device configured as Slave in the 3rd IDE controller failed an ATAPI compatibility test. This message is typically displayed when the BIOS is trying to detect and configure IDE/ATAPI devices in POST.	
4th Master Drive - ATAPI Incompatible	The IDE/ATAPI device configured as Master in the 4th IDE controller failed an ATAPI compatibility test. This message is typically displayed when the BIOS is trying to detect and configure IDE/ATAPI devices in POST.	
4th Slave Drive - ATAPI Incompatible	The IDE/ATAPI device configured as Slave in the 4th IDE controller failed an ATAPI compatibility test. This message is typically displayed when the BIOS is trying to detect and configure IDE/ATAPI devices in POST.	
5th Master Drive - ATAPI Incompatible	The IDE/ATAPI device configured as Master in the 5th IDE controller failed an ATAPI compatibility test. This message is typically displayed when the BIOS is trying to detect and configure IDE/ATAPI devices in POST.	
5th Slave Drive - ATAPI Incompatible	The IDE/ATAPI device configured as Slave in the 5th IDE controller failed an ATAPI compatibility test. This message is typically displayed when the BIOS is trying to detect and configure IDE/ATAPI devices in POST.	
6th Master Drive - ATAPI Incompatible	The IDE/ATAPI device configured as Master in the 6th IDE controller failed an ATAPI compatibility test. This message is typically displayed when the BIOS is trying to detect and configure IDE/ATAPI devices in POST.	

Message Displayed	Description	
6th Slave Drive - ATAPI Incompatible	The IDE/ATAPI device configured as Slave in the 6th IDE controller failed an ATAPI compatibility test. This message is typically displayed when the BIOS is trying to detect and configure IDE/ATAPI devices in POST.	
S.M.A.R.T. Capable but Command Failed	BIOS tried to send a S.M.A.R.T. message to a hard disk, but the command transaction ad. a message can be reported by an ATAPI device using the S.M.A.R.T. error reporting adard. S.M.A.R.T. failure messages may indicate the need to replace the hard disk.	
S.M.A.R.T. Command Failed	The BIOS tried to send a S.M.A.R.T. message to a hard disk, but the command transaction failed. This message can be reported by an ATAPI device using the S.M.A.R.T. error reporting standard. S.M.A.R.T. failure messages may indicate the need to replace the hard disk.	
S.M.A.R.T. Status BAD, Backup and Replace	A S.M.A.R.T. capable hard disk sends this message when it detects an imminent failure. This message can be reported by an ATAPI device using the S.M.A.R.T. error reporting standard. S.M.A.R.T. failure messages may indicate the need to replace the hard disk.	
S.M.A.R.T. Capable and Status BAD	A S.M.A.R.T. capable hard disk sends this message when it detects an imminent failure. This message can be reported by an ATAPI device using the S.M.A.R.T. error reporting standard. S.M.A.R.T. failure messages may indicate the need to replace the hard disk.	

Virus Related

Message Displayed	Description	
BootSector Write	The BIOS has detected software attempting to write to a drive??s boot sector. This is flagged as possible virus activity. This message will only be displayed if Virus Detection is enabled in AMIBIOS setup.	
VIRUS: Continue (Y/ N)?	If the BIOS detects possible virus activity, it will prompt the user. This message will only be displayed if Virus Detection is enabled in AMIBIOS setup.	

System Configuration

Message Displayed	Description	
DMA-1 Error	Error initializing primary DMA controller. This is a fatal error, often indication a problem with system hardware	
DMA-2 Error		
	Error initializing secondary DMA controller. This is a fatal error, often indication a problem with system hardware.	
DMA Controller Error	POST error while trying to initialize the DMA controller. This is a fatal error, often indication a problem with system hardware.	
Checking NVRAMUpda te Failed	BIOS could not write to the NVRAM block. This message appears when the FLASH part is write-protected or if there is no FLASH part (System uses a PROM or EPROM).	

Message Displayed	Description	
Microcode Error	BIOS could not find or load the CPU Microcode Update to the CPU. This message only applies to INTEL CPUs. The message is most likely to appear when a brand new CPU is installed in a motherboard with an outdated BIOS. In this case, the BIOS must be updated to include the Microcode Update for the new CPU.	
NVRAM Checksum Bad, NVRAM Cleared	There was an error in while validating the NVRAM data. This causes POST to clear the NVRAM data.	
Resource Conflict	More than one system device is trying to use the same non-shareable resources (Memory or I/O).	
NVRAM Ignored	The NVRAM data used to store Plug??n??Play (PnP) data was not used for system configuration in POST.	
NVRAM Bad	The NVRAM data used to store Plug??n??Play (PnP) data was not used for system configuration in POST due to a data error.	
Static Resource Conflict	Two or more Static Devices are trying to use the same resource space (usually Memory or I/O).	
PCI I/O conflict	A PCI adapter generated an I/O resource conflict when configured by BIOS POST.	
PCI ROM conflict	A PCI adapter generated an I/O resource conflict when configured by BIOS POST.	
PCI IRQ conflict	A PCI adapter generated an I/O resource conflict when configured by BIOS POST.	
PCI IRQ routing table error	BIOS POST (DIM code) found a PCI device in the system but was unable to figure out how to route an IRQ to the device. Usually this error is causing by an incomplete description of the PCI Interrupt Routing of the system.	
Timer Error	Indicates an error while programming the count register of channel 2 of the 8254 timer. This may indicate a problem with system hardware.	
Refresh timer test failed	BIOS POST found that the refresh timer hardware failed to pass the Refresh Retrace Test.	
Interrupt Controller-1 error	BIOS POST could not initialize the Master Interrupt Controller. This may indicate a problem with system hardware.	
Interrupt Controller-2 error	BIOS POST could not initialize the Slave Interrupt Controller. This may indicate a problem with system hardware.	

CMOS

Message Displayed	Description
CMOS Date/ Time Not Set	The CMOS Date and/or Time are invalid. This error can be resolved by readjusting the system time in AMIBIOS Setup.
CMOS Battery Low	CMOS Battery is low. This message usually indicates that the CMOS battery needs to be replaced. It could also appear when the user intentionally discharges the CMOS battery.

Message Displayed	Description	
CMOS Settings Wrong	CMOS settings are invalid. This error can be resolved by using AMIBIOS Setup.	
CMOS Checksum Bad	CMOS contents failed the Checksum check. Indicates that the CMOS data has been changed by a program other than the BIOS or that the CMOS is not retaining its data due to malfunction. This error can typically be resolved by using AMIBIOS Setup.	

Miscellaneous

Message Displayed	Description	
KBC BAT Test failed	Keyboard controller BAT test failed. This may indicate a problem with keyboard controller nitialization.	
Keyboard Error	Keyboard is not present or the hardware is not responding when the keyboard controller is initialized.	
PS2 Keyboard not found	PS2 Keyboard support is enabled in the BIOS setup but the device is not detected.	
PS2 Mouse not found	PS2 Mouse support is enabled in the BIOS setup but the device is not detected.	
Keyboard/ Interface Error	Keyboard Controller failure. This may indicate a problem with system hardware.	
Unlock Keyboard	PS2 keyboard is locked. User needs to unlock the keyboard to continue the BIOS POST.	
System Halted	The system has been halted. A reset or power cycle is required to reboot the machine. This message appears after a fatal error has been detected.	
<ins> Pressed</ins>	Indicates that <ins> key is pressed during the BIOS POST. The POST will load and use default CMOS settings.</ins>	
Password check failed		
	The password entered does not match the password set in the setup. This condition may occur for both Supervisor and User password verification.	
Unknown BIOS error. Error code = 004Ah	This message is displayed when ADM module is not present in the AMIBIOS8 ROM.	
Unknown BIOS error. Error code = 004Bh	This message is displayed when language module is not present in the AMIBIOS8 ROM.	
Floppy Controller Failure	Error in initializing legacy Floppy Controller.	

USB eModule Error Messages

Message Displayed	Description
Warning! Unsupported USB device found and disabled!	This message is displayed when a non-bootable USB device is enumerated and disabled by the BIOS.
Warning! Port 60h/64h emulation is not supported by this USB Host Controller!	This message is displayed to indicate that port 60h/64h emulation mode cannot be enabled for this USB host controller. This condition occurs if USB KBC emulation option is set for non-SMI mode.
Warning! EHCI controller disabled. It requires 64bit data support in the BIOS.	This message is displayed to indicate that EHCI controller is disabled because of incorrect data structure. This condition occur if the USB host controller needs 64-bit data structure while the USB is ported with 32-bit data structure.

SMBIOS eModule Error Messages

Message Displayed	Description
Not enough space in Runtime area!!. SMBIOS data will not be available.	This message is displayed when the size of the SMBIOS data exceeds the available SMBIOS runtime storage size

CPU eModule Error Messages

Message Displayed	Description
Warning! This system board does not support the power requirements of the installed processor. The processor will be run at a reduced frequency, which will impact system performance. area!!. SMBIOS data will not be available.	This message is displayed when the power requirements of the board do not match the power requirement of the CPU.

MPS Table (Multi-processor) eModule Error Messages

Message Displayed	Description
Insufficient Runtime space for MPS data! System may operate in PIC or Non-MPS mode.	This message is displayed when there is not enough space in the 0F000h runtime area for creating MPS table.

Error Symptoms List

NOTE: To diagnose a problem, first find the error symptom in the left column. If directed to a check procedure, replace the FRU indicated in the check procedure. If no check procedure is indicated, the first Action/ FRU listed in right column is the most likely cause.

Error Symptom Action/FRU				
Processor / Processor Fan				
NOTE: Normally, the processor fan should be operative, and the processor clock setting should be exactly set to match its speed requirement before diagnosing any processor problems.				
Processor fan does not run but power supply fan runs.	 Ensure the system is not in power saving mode.See "Power Management"in chapter2. With the system power on, measure the voltage of processor fan connector. Its reading should be +12Vdc. Its reading should be +12Vdc. If the reading shows normal, but the fan still does not work, then replace a good fan.3. Main board. 			
Processor test failed.	1.Processor. 2.Main board.			
Main board a	and Memory			
NOTE: Ensure the memory modules are installed properly and the contact leads are clean before diagnosing any system problems.				
Memory test failed.	1.See "Memory" 2.Main board			
Incorrect memory size shown or repeated during POST.	 Insert the memory modules in the DIMM sockets properly, then reboot the system. Memory module. Main board. 			
System works but fails to enter power saving mode when the Power Management Mode is set to Enabled.	 Enter BIOS Setup and load default settings.In Windows Systems, check settings in Power Management Property of Control Panel. Reload software from Recovery CD. 			
Blinking cursor only; system does not work.	 Diskette/IDE drive connection/cables Diskette/IDE disk drives See "Undetermined Problems". Main board 			
Diskett	e Drive			
NOTE: Ensure the diskette drive is auto-setting in BIOS Setup and its read/write head is clean before diagnosing any diskette drive problems.(If only one drive is installed, please make sure the drive is connected to master connector or the drive is set to master.)				
Media and drive are mismatched.	 Ensure the diskette drive is configured correctly in the Disk Drives of BIOS Setup. Ensure the diskette drive is correctly formatted. Diskette drive connection/cable Diskette drive Main board 			

Error Symptom	Action/FRU
Diskette drive does not work.	 1.Ensure the diskette drive is not set to None in the Disk Drives of BIOS Setup. 2.Diskette drive power 3.Diskette drive connection/cable 4.Diskette drive 5.Main board
Diskette drive read/write error.	 Diskette. Diskette drive cable. Diskette drive. Main board
Diskette drive LED comes on for more than 2 minutes when reading data.	1.Diskette2.Diskette drive connection/cable3.Diskette drive4.Main board
Diskette drive LED fails to light, and the drive is unable to access for more than 2 minutes.	1.Diskette2.Diskette drive power3.Diskette drive connection/cable4.Diskette drive5.Main board
Diskette drive test failed.	1.Diskette2.Diskette drive3.Diskette drive cable4.Main board
Hard D	isk Drive
	ectly in BIOS Setup, cable/jumper are set correctly blems. (If only one drive is installed, please make sure or or the drive is set to master.)
Hard disk drive test failed.	 Enter BIOS Setup and Load default settings. Hard disk drive cable. Hard disk drive. Main board.
Hard disk drive cannot format completely.	1.Enter BIOS Setup and Load default settings.2.Hard disk drive cable.3.Hard disk drive.4.Main board
Hard disk drive has write error.	1.Enter BIOS Setup and Load default settings. 2.Hard disk drive.
Hard disk drive LED fails to light, but system operates normally.	1.With the system power on, measure the voltage of hard disk LED connector.2.Hard drive LED cable.
CD/DVD-	ROM Drive
NOTE: Ensure CD/DVD-ROM drive is configured and its laser beam is clean before diagnor	d correctly in BIOS Setup, cable/jumper are set correctly sing any CD/DVD-ROM drive problems.

Error Symptom	Action/FRU	
CD/DVD-ROM drive LED doesn't come on but works normally.	1.CD/DVD-ROM drive	
CD/DVD-ROM drive LED flashes for more than 30 seconds before LED shutting off. Software asks to reinstall disc.Software displays a reading CD/DVD error.	 1.CD/DVD-ROM may have dirt or foreign material on it. Check with a known good disc. 2. CD/DVD-ROM is not inserted properly. 3.CD/DVD-ROM is damaged. 	
CD/DVD-ROM drive cannot load or eject when the system is turned on and its eject button is pressed and held.	 1.Disconnect all cables from CD/DVD-ROM drive except power cable, then press eject button to try to unload the disk. 2.CD/DVD-ROM drive power. 3.CD/DVD-ROM drive 	
CD/DVD-ROM drive does not read and there are no messages are displayed.	 1.CD may have dirt or foreign material on it. Check with a known good disc. 2.Ensure the CD/DVD-ROM driver is installed properly. 3.CD/DVD-ROM drive. 	
CD/DVD-ROM drive can play audio CD but no sound output.	 Ensure the headphone jack of the CD/DVD-ROM has an output. Turn up the sound volume. Speaker power/connection/cable. CD/DVD-ROM drive. 	
Real-tim	e clock	
Real-time clock is inaccurate. 1.Ensure the information in the Standard Clean Feature of BIOS Setup is set correctly. 2.RTC battery. 3.Main board.		
Au	dio	
Audio software program invokes but no sound comes from speakers.	1.Speaker power/connection/cable.	
Мос	lem	
 Modem ring cannot wake up system from suspend node. 1.For the External Modem, make sure Pow Ring in BIOS Setup or Power Management Enabled. For the PCI modem, make sure V by PCI card is set to Enabled. 2.If PCI modem card is used, reinsert the moder card to PCI slot firmly or replace the moder 3.In Win 98, ensure the telephone application configured correctly for your modem and series receive messages and/or fax. 		
Data/fax modem software program invokes but cannot receive/send data/fax	1.Ensure the modem card is installed properly.	
Fax/voice modem software program invokes but has no sound output. (Data files are received normally; voice from modem cannot be produced, but system	1.Ensure the modem voice-in cable from modem adapter card to main board	
sound feature works normally.)		

Error Symptom	Action/FRU	
Video memory test failed.Video adapter failed.	 1.Remove all non-factory-installed cards. 2.Load default settings (if screen is readable). 3.Main board 	
Display problem: -Incorrect colors No high intensity Missing, broken, or incorrect characters Blank monitor (dark) Blank monitor (bright) Distorted image Unreadable monitor	 Monitor signal connection/cable. Monitor Video adapter card Main board 	
Other monitor problems		
Display changing colors.	 Monitor signal connection/cable Monitor Main board 	
Display problem not listed above (including blank or illegible monitor).	 1."Monitor" 2.Load default settings (if screen is readable). 3.Main board 	
Parallel/S	erial Ports	
Execute "Load BIOS Default Settings" in BIOS Setup t parallel/serial ports problems.	o confirm ports presence before diagnosing any	
Serial or parallel port loop-back test failed.	1.Make sure that the LPT# or COM# you test is the same as the setting in BIOS Setup.2.Loop-back.3.Main board	
Printing failed.	 Ensure the printer driver is properly installed. Refer to the printer service manual. Printer. Printer cable. Main board. 	
Printer problems.	1.Refer to the service manual for the printer.	
Keyb	poard	
Some or all keys on keyboard do not work.	1.Keyboard	
Power	Supply	
Pressing power switch does not turn off system. (Only unplugging the power cord from electrical outlet can turn off the system.)	1.Ensure the Soft-off by PWR-BTTN. in BIOS Setup of Power Management is not set to Instant-off.2.Power switch cable assembly	
Pressing power switch does not turn on the system.	1.Ensure the power override switch (situated at the back of the machine, just above the connector for the power cable) is not set to OFF.2.Power switch cable assembly.	

Error Symptom	Action/FRU			
Executing software shutdown from Windows98 Start menu does not turn off the system. (Only pressing power switch can turn off the system).	1.Load default settings. 2.Reload software from Recovery CD.			
No system power, or power supply fan is not running.	1.Power Supply 2.Main board			
Other Problems				
Any other problems.	1.Undetermined Problems			

Undetermined Problems

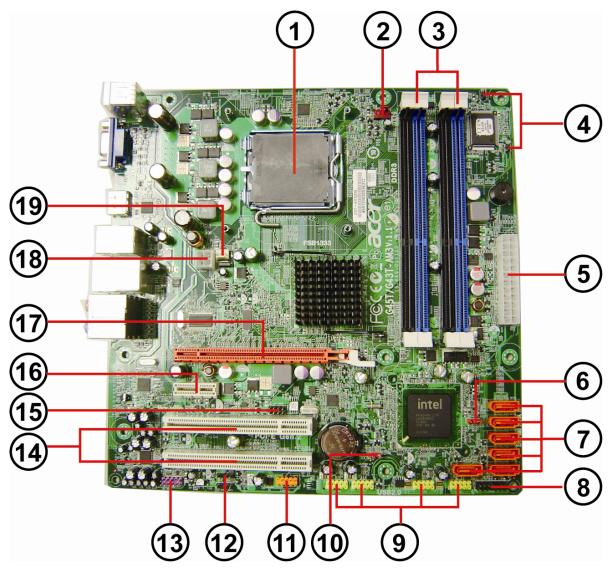
If an error message is present, go to "POST Error Messages List" on page 85. If you did not receive any messages, if the symptom is listed in "or "Error Symptoms List" on page 87. If you still cannot solve the problem, continue with this check:

- 1. Check the power supply voltage. If the voltage are correct continue with the following steps:
- 2. Power off the system unit.
- 3. Perform the following checks, one by one, until you have isolated the problem FRU.
- 4. Load default settings in setup.
- 5. Check all main board jumper positions and switch settings.
- 6. Check all adapter card jumper positions.
- 7. Check all device jumper positions.
- 8. Check all cables and connectors for proper installation.
- **9.** If the jumpers, switches and voltage settings are correct, remove or disconnect the following, one at a time:
- 10. Non-Acer devices
 - External devices
 - Any adapter card (modem card, LAN card or video card, if installed)
 - CD/DVD-ROM drive
 - Diskette drive
 - Hard disk drive
 - DIMM
 - Processor
 - Main board
- 11. Power on the system unit.
- 12. Repeat steps 2 through 5 until you find the failing device or adapter.

Chapter 5

Jumper and Connector Information

M/B Placement



No	Label	Description	No	Label	Description
1	CPU Socket	CONN,Socket,IntelPrescot tCPU,LGA- 775P,10u,G,SMD	11	1394A1	Onboard 1394a header
2	CPU_FAN	CPU fan power header	12	SPDIF_OUT1 ~2	SPDIF out header
3	DIMM1~4	CONN,DIMM,DDRIII,1.5V, V/T,Blu,15u,G,DIP-240	13	F_AUDIO	Front panel audio header
4	GPIO1~2	General Purpose Input/ Output headers	14	PCI1~2	32-bit add-on card slots
5	ATX_POWER 1	M/B main power connector	15	SPI_ROM	SPI_ROM header
6	ME_DISABLE	Front panel USB header	16	PCIEx1-1	PCIEx 1 socket
7	SATA1~6	SATA data transfe connectors	17	PCIE1	PCIEx 16 socket
8	F_PANEL	Front panel audio header	18	ATX12V1	4-pin +12V power connector
9	F_USB1~4	Front panel USB headers	19	SYS_FAN	System cooling fan connector
10	CLR_CMOS	Clear CMOS jumper			

Jumper Setting

The section explains how to set jumper for correct configuration of the mainboard.

Setting Jumper

Use the motherboard jumpers to set system configuration options. Jumpers with more Than one pin are numbered. When setting the jumpers, ensure that the jumper caps are Placed on the correct pins.

Internal header pin definition

Jumper/Header Name	Function	Definition
CLR CMOS 1 2 3 H3X1-R	CLEAR CMOS HEADER	1-2: NORMAL (Default) 2-3: CLEAR CMOS
ME DISABLE	ME_DISABLE HEADER	1-2:NORMAL 2-3:MEDISABLE(Default)
GPI01 2 H2X1-B	GPIO HEADER (RESERVE)	1:G941 2: GND
GP102 1. 2. H2X1-B	GPIO HEADER (RESERVE)	1:GP46 2: GND
CPU FAN 40 GP0 20 SENSE +12V GND H4X1-P-BR	CPU FAN HEADER	1: GND 2: +12V 3: SENSE 4: PWM CONTROL

Jumper/Header Name	Function	Definition
4 3 4 3 5 5 5 5 5 5 5 5 5 5 5 5 5	SYS FAN HEADER (3pin & 4 pin colay default:3 pin)	1: GND 2: +12V 3: SENSE 4: PWM CONTROL(4 pin Fan)
F_PANEL 1 0 0 4 5 0 0 6 7 0 0 8 9 0 0 12 11 0 0 12 13 0 0 H7*2-P10E-8	FRONT PANEL HEADER	1: SATALED+ 2: ACPI_LED 3: SATALED- 4: PWR_LED 5: GND 6: PWR_SW 7: RESET 8: GND 9: NC 10: Key 11: NC 12: VCC 13: NC 14: -ACTIVE_C
$\begin{array}{c c} F USB1 \\ \hline 1 \\ VCC VCC \\ \hline 3 \\ USB0- USB1- \\ \hline 4 \\ \hline 5 \\ USB0+ USB1+ \\ \hline 6 \\ \hline 7 \\ GND \\ \hline 8 \\ \hline 9 \\ KEY \\ \hline 0C0 \\ \hline 10 \\ \hline H5X2-P9E-Y \\ \hline \end{array}$	FRONT USB HEADER	1: USBVCC_1 2: USBVCC_1 3: USB0_XN 4: USB1_XN 5: USB0_XP 6: USB1_XP 7:GND 8: GND 9: KEY 10: GND
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	FRONT USB HEADER	1: USBVCC_2 2: USBVCC_2 3: USB2_XN 4: USB4_XN 5: USB2_XP 6: USB4_XP 7:GND 8: GND 9: KEY 10: GND

Jumper/Header Name	Function	Definition
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	FRONT USB HEADER	1: USBVCC_3 2: USBVCC_3 3: USB5_XN 4: USB7_XN 5: USB5_XP 6: USB7_XP 7:GND 8: GND 9: KEY 10: GND
F U\$94 1 VCC1 VCC2 3 DATA0- DATA1- 5 DATA0+ DATA1+ 7 GND1 GND2 × 9 NC 0C H5X2-P9€ Y	FRONT USB HEADER	1: USBVCC_4 2: USBVCC_4 3: USB3_XN 4: USB6_XN 5: USB3_XP 6: USB6_XP 7:GND 8: GND 9: KEY 10: GND
F_AUDIO 1 0 2 3 0 4 5 0 6 7 0 0 9 0 0 H6X2-P8E-PU	FRONT AUDIO HEADER	1: PORT-F_L 2: AUGND 3: PORT-F_R 4: FRONT_AUD_DET 5: PORT-E_R 6: MIC2_JD 7: AUGND 8: KEY 9: PORT-E_L 10: LINE2_JD
SPDIF OUT1 10 1 30 3 4 4 H4X1-P2E-B	SPDIF HEADER	1: VCC 2: KEY 3: SPO1 4: GND
10 10 10 10 10 10 10 10 10 10	SPDIF HEADER	1: VCC 2: KEY 3: SPO2 4: GND

Jumper/Header Name	Function	Definition
1394A1 1 0 0 2 3 0 0 4 5 0 0 6 7 0 8 0 0 10 H5)2-P9E-0R	FRONT 1394 HEADER	1: T_PA0+ 2: T_PA0- 3: GND 4: GND 5: T_PB0+ 6: T_PB0- 7: CPWR1 8: CPWR1 9: KEY 10: GND

Connector pin definition

Connector Name	Function	Definition
PSKBM1	PSKBMS CONN	1: KBDATA 2: NC 3: GND 4: KBVCCSB 5: KBCLK 6: NC 7: MSDATA 8: NC 9: GND 10: KBVCCSB 11: MSCLK 12: NC 13: GND 14: GND 15: GND 16: GND 17: GND
HDMI1 2 2 3 2 3 2 3 3 3 3 6 5 5 4 4 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7	HDMI CONN	1: HDMI_TX2_P 3: HDMI_TX2_N 4: HDMI_TX1_P 6: HDMI_TX1_N 7: HDMI_TX0_P 9: HDMI_TX0_N 10: HDMI_TXC_P 12: HDMI_TXC_N 13,14: NC 15: SLHD_CLK 16: SLHD_DATA 18: HDMIVCC 19: HD_HPD 2,5,8,11,17,20,21,22,23: GND

Connector Name	Function	Definition
$\begin{array}{c} \sqrt{GA1} \\ CONN-15P3R-\sqrt{GA} \\ \hline 1 \\ \hline 7 \\ \hline 2 \\ \hline 7 \\ \hline 2 \\ \hline 9 \\ \hline 4 \\ \hline 10 \\ \hline 5 \\ \hline 0 \\ \hline 11 \\ \hline 12 \\ \hline 13 \\ \hline 9 \\ \hline 14 \\ \hline 10 \\ \hline 5 \\ \hline 0 \\ \hline 15 \\ 15 \\$	VGA CONN	1: RED 2: GREEN 3: BLUE 4,11: NC 9: HDMIVCC 12: VDAC_SDAT 13: HSYNC 14: VSYNC 15: VDAC_SCLK 5,6,7,8,10,16,17: GND
$\begin{array}{c} USB1394A1A\\ \hline \\ 87\\ \hline \\ 6 \\ -DATA1\\ \hline \\ 6 \\ -DATA1\\ HOLE\\ \hline \\ 6 \\ -DATA0\\ \hline \\ -DATA$	USB+1394 CONN	1: USBVCC_5 2: USB9_XN 3: USB9_XP 4: AUGND2 5: USBVCC_5 6: USB8_XN 7: USB8_XP 8: AUGND2 9: CPWR2 10: AUGND2 11: T_PB1- 12: T_PB1+ 13: T_PA1- 14: T_PA1+ 15: USBVDD1 G1,G2,G3,G4,G5,G6,G7, G8: AUGND2

Connector Name	Function	Definition
USBLANIA 1 VCC -DATA0 -DATA0 4 GND HOLE 5 VCC HOLE 6 VCC HOLE 6 VCC HOLE 6 OTA1 8 GND USBX2-LAN-1000 22	USB+LAN CONN	1:USBVCC_6 12:MDI1_P 2:USB10_XN 13:MDI1_N 3:USB10_XP 14:MDI2_P 4:AUGND2 15:MDI2_N 5:USBVCC_6 16:MDI3_P 6:USB11_XN 17:MDI3_N 7:USB11_XP 18:DGND 8:AUGND2 9:LAN_1P8V 10: MDI0_P 11: MDI0_N 19:LAN_LED2
9 POWER GLED 19 10 TX1+ OLED 20 11 TX1+ OLED 21 12 TX1+ YLED 22 13 TX2+ POWER G6 14 TX2+ H KAN 16 TX3+ H_LAN G7 16 TX3+ H_LAN G8 17 TX4+ H_LAN 18 USBLAN1B USBLAN1B USBLAN1B USBLAN1B		20:LAN_LED1 21: LAN_LED0 22: CL_3P3V G1,G2,G3,G4,G5,G6,G7, G8: AUGND2
SATA1 2 TXP GND 3 TXN 4 5 GND 7 6 RXP GND SATA1 7 SATA1 7 SATA1 1	SATA CONN	1: GND 2: SATA0_TX_P 3: SATA0_TX_N 4: GND 5: SATA0_RX_N 6: SATA0_RX_P 7: GND
2 7 7 7 7 7 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 7 8 7 7 8 7 7 7 7 7 8 7 7 7 7 7 7 8 7 7 7 7 7 7 7 7 7 7 7 7 7	SATA CONN	1: GND 2: SATA1_TX_P 3: SATA1_TX_N 4: GND 5: SATA1_RX_N 6: SATA1_RX_P 7: GND

Connector Name	Function	Definition
2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	SATA CONN	1: GND 2: SATA2_TX_P 3: SATA2_TX_N 4: GND 5: SATA2_RX_N 6: SATA2_RX_P 7: GND
2 2 TXP GND 3 TXN GND 4 4 4 7 7 SATA-7P2R-QR	SATA CONN	1: GND 2: SATA3_TX_P 3: SATA3_TX_N 4: GND 5: SATA3_RX_N 6: SATA3_RX_P 7: GND
2 2 7 2 7 3 5 8 7 8 8 7 8 8 8 8 7 8 7 8 8 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8	SATA CONN	1: GND 2: SATA4_TX_P 3: SATA4_TX_N 4: GND 5: SATA4_RX_N 6: SATA4_RX_P 7: GND
2 TXP GND 3 TXN GND 6 RXN 7 7 SATA-7P2R-OR	SATA CONN	1: GND 2: SATA5_TX_P 3: SATA5_TX_N 4: GND 5: SATA5_RX_N 6: SATA5_RX_P 7: GND

Connector Name	Function	Definition
ATX POWER1 13 3.3V 3.3V 14 .12V 3.3V 15 .12V 3.3V 16 GND GND 17 PS_ON +6V 18 GND GND 19 GND GND 20 GND GND 21 -5V PWROK 22 +5V +12V 23 +5V +12V 24 GND 3.3V	ATX_POWER CONN	1:VCC3 13:VCC3 2:VCC3 14:-12V 3: GND 15:GND 4:VCC 16:ATX_PSON_L 5:GND 17:GND 6:VCC 18:GND 7:GND 19:GND 8:ATX_PWRGD 20:NC 9:5VSB 21VCC 10:+12V 22:VCC 11:+12V 23:VCC 12:VCC3 24:GND
ATX12V1 1 CND +12V 3 CND +12V 4 CND +12V 4 CND +12V 4 CND +12V 4 CND +12V	ATX12V CONN	1: GND 2: GND 3: +12V_4P 4: +12V_4P

FRU (Field Replaceable Unit) List

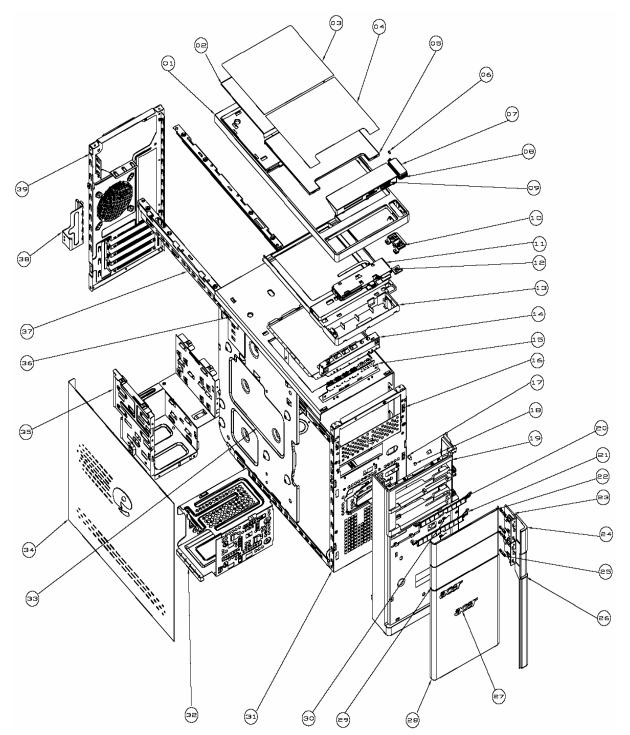
This chapter offers the FRU (Field Replaceable Unit) list in global configuration of the Aspire M5802 desktop computer. Refer to this chapter whenever ordering the parts to repair or for RMA (Return Merchandise Authorization).

NOTES:

- When ordering FRU parts, check the most up-to-date information available on your regional web
 or channel. For whatever reasons a part number is changed, it will NOT be noted on the printed
 Service Guide. For Acer authorized service providers, your Acer office may have a different part
 number code from those given in the FRU list of this printed Service Guide. You MUST use the
 local FRU list provided by your regional Acer office to order FRU parts for service.
- To scrap or to return the defective parts, follow the local government ordinance or regulations on how to dispose it properly, or follow the rules set by your regional Acer office on how to return it.
- This document will be updated as more information about the FRU list becomes available.

Aspire M5802 Exploded Diagram

NOTE: This section will be updated when more information becomes available.



ITEM	NAME	ТҮРЕ	Ϙ'ΤΥ	ITEM	NAME	TYPE	Q'TY
1	PANEL_TOP-X2	PART	1	21	DOOR_ODD_ARM_LO- X1	PART	1
2	COVER_TOP-X1	PART	1	22	DOOR_ODD_UP_M5-X2	PART	1
3	MYLAR-COVER-TOP			23	BTN_ODD_LO-X1	PART	2
4	MYLAR-DOOR-TOP			24	BTN_ODD_DCR_UP-X1	PART	2
5	DOOR_TOP-X1	PART	1	25	SPRING_ODD_BTN-2	PART	4
6	LED_3	PART	1	26	LOGO_ASPIRE_M5-X1	PART	1
7	BTN_PWR_DCR-X1	ELECT RONIC	1	27	LOGO-AM530	PART	1
8	BTN_PWR_V2-X1	PART	1	28	PANEL_FRT_LO-X2	PART	1
9	MCR_HOLDER-X4	PART	1	29	DOOR_ODD_LOWER_M 5-X2	PART	1
10	BKT_PWR-BTN-X1	PART	1	30	SPRING-ODD-DOOR	PART	2
11	MCR-KYE-M5-D224	PART	1	31	ACER-M330-MAIN- CHASSIS	PART	1
12	CONTACT_SWITCH	PART	1	32	HDD-BKT	PART	1
13	IO-PANEL_TOP-X2	PART	1	33	MB-SUPPORT	PART	1
14	TOP-BRKT_USB	PART	1	34	SIDE_DOOR	PART	1
15	FIO-AM520	PART	1	35	ODD_CAGE	PART	1
16	ACER-M330-MAIN- CHASSIA	PART	1	36	SUB_CHASSIS	PART	1
17	LED-A1	PART	2	37	CHASSIS_SUPPORT	PART	2
18	HDD_LENS-X1	PART	1	38	PCI-DOOR	PART	1
19	PANEL_MAIN_M5-X1	PART	1	39	REAR_CHASSIS	PART	1
20	DOOR_ODD_ARM_UP- X1	PART	1				

Aspire M5802 FRU List

Category	Description	Part Number
MAINBOARD		
	MB Kit HimalayanII_D2 Intel G43 ICH10R GMA X4500 384M Intel 82567V Giga LAN ATX W/ 1394 V1.0 LF w/ EuP Lot6	MB.SCQ07.002
CARD READER		
	NS 16-in-1 CR M5 w/USB2.0, Realtek RTS-5181,w/micro SD, M2	CR.10400.075
	KYE 16-in-1 CR M5 w/USB2.0, Realtek RTS-5181,w/micro SD, M2	CR.10400.073
CPU COOLER		
	FAN COOLER P4_SKT775 PKP367 W/I SUNON 4000RPM	HI.3670C.001
SYSTEM FAN		
	Fan Cooler LGA775 TMD06 Fan 9225	HI.10800.006
POWER SUPPLY		
	FR 500W EUP 82+ (ES5.0)	PY.50008.004
CPU		
	Core 2 Quad Q9650 (3.0G 12M 1333FSB), 95W , E0	KC.96501.QQE
ATTER	Core 2 Quad Q9550 (2.83G 12M 1333FSB), 95W , E0	KC.95501.QQE
	Core 2 Quad Q9400 (2.66G 6M 1333FSB) , 95W , R0	KC.94001.QQ0
	Core 2 Duo E8600 (3.33G 6M 1333FSB) , 65W , E0	KC.86001.DEE
	Core 2 Quad Q8400 (2.66G 4M 1333FSB) ,95W , R0	KC.84001.QQ0
	Core 2 Quad Q8300 (2.5G 4M 1333FSB) 95W , R0	KC.83001.QQV
	Core 2 Quad Q8200 (2.33G 4M 1333FSB) 95W , M1	KC.82001.QQR
	Core 2 Duo E8500 (3.16G 6M 1333FSB) , 65W , E0	KC.85001.DEE
	Core 2 Duo E8400 (3.0G 6M 1333FSB) , 65W , E0	KC.84001.DEE
	Core 2 Duo E7600 (2.66G 3M 1066FSB) , 65W , R0	KC.76001.DE0
	Core 2 Duo E7500 (2.66G 3M 1066FSB) , 65W , R0	KC.75001.DEV
	Core 2 Duo E7400 (2.66G 3M 1066FSB) , 65W , R0	KC.74001.DEV

Category	Description	Part Number
	Core 2 Duo E7300 (2.66G 3M 1066FSB) , 65W , M0	KC.73001.DE0
	Pentium Dual Core E6300 (2.8G 2M 1066FSB) , 65W , R-0	KC.63001.DEM
	Pentium Dual Core E5400 (2.7G 2M 800FSB) , 65W , R-0	KC.54001.DEV
	Pentium Dual Core E5300 (2.6G 2M 800FSB) , 65W , R-0	KC.53001.DEV
	Pentium Dual Core E5200 (2.5G 2M 800FSB) , 65W , R-0	KC.52001.DER
MEMORY		
	Memory UNIFOSA UNB-DIMM DDRII 800 1GB GU341G0ALEPR6B2C6F1 LF 128*8 0.065um	KN.1GB0H.013
	Memory NANYA UNB-DIMM DDRII 800 1GB NT1GT64U88D0BY-AD LF 128*8 0.07um	KN.1GB03.024
	Memory SAMSUNG UNB-DIMM DDRII 800 1GB M3782863QZS-CF7 LF 128*8 0.065um	KN.1GB0B.021
	Memory SAMSUNG UNB-DIMM DDRII 800 1GB M378T2863EHS-CF7 LF 128*8 0.055um	KN.1GB0B.034
	Memory HYNIX UNB-DIMM DDRII 800 1GB HYMP112U64CP8-S6 LF 128*8 0.065um	KN.1GB0G.015
	Memory UNIFOSA UNB-DIMM DDRII 800 2GB GU342G0ALEPR692C6F1 LF 128*8 0.065um	KN.2GB0H.007
	Memory NANYA UNB-DIMM DDRII 800 2GB NT2GT64U8HD0BY-AD LF 128*8 0.07um	KN.2GB03.009
	Memory HYNIX UNB-DIMM DDRII 800 2GB HYMP125U64CP8-S6 LF 128*8 0.065um	KN.2GB0G.008
	Memory SAMSUNG UNB-DIMM DDRII 800 2GB M378T5663QZ3-CF7 LF 128*8 0.065um	KN.2GB0B.006
	Memory SAMSUNG UNB-DIMM DDRII 800 2GB M378T5663EH3-CF7 LF 128*8 0.055um	KN.2GB0B.022
HDD	•	•
	160GB	KH.16007.023
1	320GB	KH.32007.006
	640GB	KH.64007.001
	1TB	KH.01K07.002
	160GB	KH.16001.041
	320GB	KH.32001.015
	750GB	KH.75001.008
	1TB	KH.01K01.007
	1.5TB	KH.15K01.002
	640GB	KH.64008.003
	750GB	KH.75008.005
	1TB	KH.01K08.005
	2ТВ	KH.02K08.001

Category	Description	Part Number
ODD		
	DH-16D5S Win7	KV.0160F.002
	DH-20N(H/F) Win7	KV.0160D.016
-	GH-41F(H/F) Win7 non-Labelflash	KU.0160D.049
	DH-16AASH (H/F) Win7 non-Labelflash	KU.0160F.009
	DH-4O3S Win7	KV.0040F.002
	CH-10F Win7 non-Labelflash	KO.0060D.004
	DH-6E2S Win7 non-Labelflash	KO.0060F.002
	BH-30F (H/F) Win7 non-Labelflash	KU.0060D.004
VGA CARD		
	GEFORCE GTS250 1GB GDDR3 QIMUNDA (256BITS) DUAL DVI ATX BRACKET	VG.PCGT2.501
	GEFORCE GTS240 2GB GDDR3 SAMSUNG (256BITS) VGA DVI HDMI ATX BRACKET	VG.PCGT2.401
	GEFORCE GT230 1.5GB GDDR3 (192BITS) SAMSUNG VGA DVI HDMI ATX BRACKET	VG.PCGT2.301
	GEFORCE GT220 1GB DDR2 (128BITS) SAMSUNG DVI HDMI VGA ATX BRACKET	VG.PCGT2.201
	HD4870 1GB DDR 5 (256BITS) HYNIX 6 LAYER DUAL DVI NEW COOLER NEW PCB W/ATX BKT ROHS	VG.APC48.712
	HD4850 1GB DDR 3 (256bits) SAMSUNG 6 LAYER DUAL DVI W/ATX BKT ROHS	VG.APC48.511
	HD4650 1GB DDR 2 (128BITS) SAMSUNG DVI HDMI VGA W/ATX BKT ROHS	VG.APC46.502
	HD4350 512MB DDR 2 (64BITS) SAMSUNG DVI HDMI VGA W/ATX BKT ROHS	VG.APC43.501
TV TUNER		
	PE988-A TV Tuner Card PCIe Hybrid ATSC with S/W Encoder	TU.10500.038
1	PE988-D TV Tuner Card PCIe Hybrid DVB-T with S/W Encoder	TU.10500.040
	Avermedia H751-A TV Tuner Card PCIe Hybrid ATSC, S/W Encoder	TU.10500.045
and provide the second s	Avermedia H751-D TV Tuner Card PCIe Hybrid ATSC, S/W Encoder	TU.10500.048
MODEM		
	D-1156I#/A7A, Modem PCI card, LSI Universal Modem (PCI) 56K V.92 - Pinball (P40)	FX.10100.004
WLAN CARD		
	WP61R2, WLAN PCI Card 802.11 b/g, Realtek RTL8185L	NI.10200.005
7	WP81R1, WLAN PCI Card 802.11b/g/n 1T x 2R, Realtek RTL8190	NI.10200.021
· MUNICIPALITY	WN5301A, WLAN PCI Card 802.11 b/g, Atheros AR2415	NI.10200.027

Category	Description	Part Number
SPEAKER		
	Neosonica Speaker USB with new color AC-MT-018	SP.10600.027
MOUSE		
	Lite-on Optical mouse USB SM-9625 with new color AC-MT-018	MS.11200.048
	Chicony RF2.4 MG-0766 with new silver color	MS.11200.054
KEYBOARD		
	Keyboard LITE-ON SK-9625 USB Standard 104KS Black US with new color AC-MT-018	KB.USB0B.082
	Keyboard LITE-ON SK-9625 USB Standard 104KS Black Simplified Chinese with new color AC-MT-018	KB.USB0B.083
	Keyboard LITE-ON SK-9625 USB Standard 104KS Black Traditional Chinese with new color AC-MT-018	KB.USB0B.084
	Keyboard LITE-ON SK-9625 USB Standard 104KS Black US International with new color AC-MT-018	KB.USB0B.085
	Keyboard LITE-ON SK-9625 USB Standard 104KS Black Arabic/English with new color AC-MT-018	KB.USB0B.086
	Keyboard LITE-ON SK-9625 USB Standard 104KS Black Thailand with new color AC-MT-018	KB.USB0B.087
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black Spanish with new color AC-MT-018	KB.USB0B.088
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black Portuguese with new color AC-MT-018	KB.USB0B.089
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black Canadian French with new color AC-MT-018	KB.USB0B.090
	Keyboard LITE-ON SK-9625 USB Standard 107KS Black Brazilian Portuguese with new color AC-MT-018	KB.USB0B.091
	Keyboard LITE-ON SK-9625 USB Standard 109KS Black Japanese with new color AC-MT-018	KB.USB0B.092
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black German with new color AC-MT-018	KB.USB0B.093
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black Italian with new color AC-MT-018	KB.USB0B.094
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black French with new color AC-MT-018	KB.USB0B.095
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black Swedish with new color AC-MT-018	KB.USB0B.096
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black UK with new color AC-MT-018	KB.USB0B.097
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black Dutch with new color AC-MT-018	KB.USB0B.098
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black Swiss/G with new color AC-MT-018	KB.USB0B.099

Category	Description	Part Number
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black Belgium with new color AC-MT-018	KB.USB0B.100
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black Icelandic with new color AC-MT-018	KB.USB0B.101
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black Norwegian with new color AC-MT-018	KB.USB0B.102
	Keyboard LITE-ON SK-9625 USB Standard 104KS Black Hebrew with new color AC-MT-018	KB.USB0B.103
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black Polish with new color AC-MT-018	KB.USB0B.104
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black Slovenian with new color AC-MT-018	KB.USB0B.105
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black Slovak with new color AC-MT-018	KB.USB0B.106
	Keyboard LITE-ON SK-9625 USB Standard 104KS Black Russian with new color AC-MT-018	KB.USB0B.107
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black Hungarian with new color AC-MT-018	KB.USB0B.108
	Keyboard LITE-ON SK-9625 USB Standard 104KS Black Greek with new color AC-MT-018	KB.USB0B.109
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black Danish with new color AC-MT-018	KB.USB0B.110
	Keyboard LITE-ON SK-9625 USB Standard 104KS Black Czech with new color AC-MT-018	KB.USB0B.111
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black Romanian with new color AC-MT-018	KB.USB0B.112
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black Turkish with new color AC-MT-018	KB.USB0B.113
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black Spanish Latin with new color AC-MT-018	KB.USB0B.114
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black Turkish-Q with new color AC-MT-018	KB.USB0B.115
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black Arabic/French with new color AC-MT-018	KB.USB0B.116
	Keyboard LITE-ON SK-9625 USB Standard 104KS Black Kazakh with new color AC-MT-018	KB.USB0B.117
	Keyboard LITE-ON SK-9625 USB Standard 104KS Black Turkmen with new color AC-MT-018	KB.USB0B.118
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black Nordic with new color AC-MT-018	KB.USB0B.119
	Keyboard CHICONY KG-0766 RF2.4 Standard 104KS Black US with new silver color	KB.RF403.135
	Keyboard CHICONY KG-0766 RF2.4 Standard 104KS Black Traditional Chinese with new silver color	KB.RF403.136
	Keyboard CHICONY KG-0766 RF2.4 Standard 104KS Black Simplified Chinese with new silver color	KB.RF403.137

Category	Description	Part Number
	Keyboard CHICONY KG-0766 RF2.4 Standard 104KS Black US International with new silver color	KB.RF403.138
	Keyboard CHICONY KG-0766 RF2.4 Standard 104KS Black Arabic/English with new silver color	KB.RF403.139
	Keyboard CHICONY KG-0766 RF2.4 Standard 104KS Black Thailand with new silver color	KB.RF403.140
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black Spanish with new silver color	KB.RF403.141
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black Portuguese with new silver color	KB.RF403.142
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black Canadian French with new silver color	KB.RF403.143
	Keyboard CHICONY KG-0766 RF2.4 Standard 107KS Black Brazilian Portuguese with new silver color	KB.RF403.144
	Keyboard CHICONY KG-0766 RF2.4 Standard 109KS Black Japanese with new silver color	KB.RF403.145
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black German with new silver color	KB.RF403.146
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black Italian with new silver color	KB.RF403.147
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black French with new silver color	KB.RF403.148
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black Swedish with new silver color	KB.RF403.149
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black UK with new silver color	KB.RF403.150
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black Dutch with new silver color	KB.RF403.151
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black Swiss/G with new silver color	KB.RF403.152
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black Belgium with new silver color	KB.RF403.153
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black Icelandic with new silver color	KB.RF403.154
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black Norwegian with new silver color	KB.RF403.155
	Keyboard CHICONY KG-0766 RF2.4 Standard 104KS Black Hebrew with new silver color	KB.RF403.156
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black Polish with new silver color	KB.RF403.157
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black Slovenian with new silver color	KB.RF403.158
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black Slovak with new silver color	KB.RF403.159
	Keyboard CHICONY KG-0766 RF2.4 Standard 104KS Black Russian with new silver color	KB.RF403.160

Category	Description	Part Number
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black Hungarian with new silver color	KB.RF403.161
	Keyboard CHICONY KG-0766 RF2.4 Standard 104KS Black Greek with new silver color	KB.RF403.162
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black Danish with new silver color	KB.RF403.163
	Keyboard CHICONY KG-0766 RF2.4 Standard 104KS Black Czech with new silver color	KB.RF403.164
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black Romanian with new silver color	KB.RF403.165
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black Turkish with new silver color	KB.RF403.166
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black Spanish Latin with new silver color	KB.RF403.167
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black Turkish-Q with new silver color	KB.RF403.168
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black Arabic/French with new silver color	KB.RF403.169
	Keyboard CHICONY KG-0766 RF2.4 Standard 104KS Black Kazakh with new silver color	KB.RF403.170
	Keyboard CHICONY KG-0766 RF2.4 Standard 104KS Black Turkmen with new silver color	KB.RF403.171
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black Nordic with new silver color	KB.RF403.172
	Keyboard CHICONY KG-0766 RF2.4 Standard 104KS Black US with new silver color	KB.RF403.135
	Keyboard CHICONY KG-0766 RF2.4 Standard 104KS Black Traditional Chinese with new silver color	KB.RF403.136
	Keyboard CHICONY KG-0766 RF2.4 Standard 104KS Black Simplified Chinese with new silver color	KB.RF403.137
	Keyboard CHICONY KG-0766 RF2.4 Standard 104KS Black US International with new silver color	KB.RF403.138
	Keyboard CHICONY KG-0766 RF2.4 Standard 104KS Black Arabic/English with new silver color	KB.RF403.139
	Keyboard CHICONY KG-0766 RF2.4 Standard 104KS Black Thailand with new silver color	KB.RF403.140
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black Spanish with new silver color	KB.RF403.141
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black Portuguese with new silver color	KB.RF403.142
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black Canadian French with new silver color	KB.RF403.143
	Keyboard CHICONY KG-0766 RF2.4 Standard 107KS Black Brazilian Portuguese with new silver color	KB.RF403.144
	Keyboard CHICONY KG-0766 RF2.4 Standard 109KS Black Japanese with new silver color	KB.RF403.145

Category	Description	Part Number
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black German with new silver color	KB.RF403.146
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black Italian with new silver color	KB.RF403.147
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black French with new silver color	KB.RF403.148
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black Swedish with new silver color	KB.RF403.149
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black UK with new silver color	KB.RF403.150
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black Dutch with new silver color	KB.RF403.151
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black Swiss/G with new silver color	KB.RF403.152
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black Belgium with new silver color	KB.RF403.153
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black Icelandic with new silver color	KB.RF403.154
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black Norwegian with new silver color	KB.RF403.155
	Keyboard CHICONY KG-0766 RF2.4 Standard 104KS Black Hebrew with new silver color	KB.RF403.156
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black Polish with new silver color	KB.RF403.157
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black Slovenian with new silver color	KB.RF403.158
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black Slovak with new silver color	KB.RF403.159
	Keyboard CHICONY KG-0766 RF2.4 Standard 104KS Black Russian with new silver color	KB.RF403.160
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black Hungarian with new silver color	KB.RF403.161
	Keyboard CHICONY KG-0766 RF2.4 Standard 104KS Black Greek with new silver color	KB.RF403.162
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black Danish with new silver color	KB.RF403.163
	Keyboard CHICONY KG-0766 RF2.4 Standard 104KS Black Czech with new silver color	KB.RF403.164
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black Romanian with new silver color	KB.RF403.165
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black Turkish with new silver color	KB.RF403.166
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black Spanish Latin with new silver color	KB.RF403.167
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black Turkish-Q with new silver color	KB.RF403.168

Category	Description	Part Number
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black Arabic/French with new silver color	KB.RF403.169
	Keyboard CHICONY KG-0766 RF2.4 Standard 104KS Black Kazakh with new silver color	KB.RF403.170
	Keyboard CHICONY KG-0766 RF2.4 Standard 104KS Black Turkmen with new silver color	KB.RF403.171
	Keyboard CHICONY KG-0766 RF2.4 Standard 105KS Black Nordic with new silver color	KB.RF403.172

Intel RAID SOP

INTEL® MATRIX STORAGE TECHNOLOGY CHECK(DOS)

1.Intel(R) Matrix Storage Manager option ROM

1-1: Create SATA RAID 0

Step 1:Shut down the EUT, unplug the power cable,connect two SATA HDDS to EUT , check the EUT all devices are connect/plug ok.

Step 2:Press "PWR-BTTN" to power on the EUT,Load BIOS default setting .

Step 3:At "Integrated_Peripherals" page "OnChip SATA Type" item set is as "RAID" mode, save and exit.

Step 4:During BIOS post, press <Ctrl-l> to enter into Intel RAID setup utility,as picture1.



Picture1

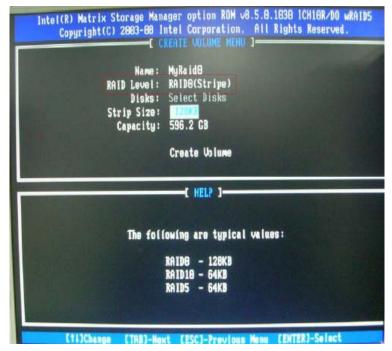
Step 5: Select "1" to enter create RAID mode ,if there is no enough available space (there was exist a Raid , delete it).

Step 6:Create RAID 0 Mode, enter the RAID name, such as "MyRaid0", default is "Volume0".



Picture2

Step 7:Select "RAID0(Stripe)" at "RAID Level".



Picture3

Intel(R) Matrix Storage Manager option ROM v8.5.8.1838 ICH108/DD wRAIDS Copyright(C) 2003-08 Intel Corporation. All Rights Reserved. [CREATE VULUME MENU] Hame: MyRaid8 RAID Level: RAID6(Stripe) Disks: Select Disks Strip Size: 120KB Capacity: 596.2 GB Capacity: 596.2 GB CHELP] Fress ENTER to create the specified volume. [HELP]

Step 8:You can select the "Strip Size" and define RAID capacity in "Capacity".

Picture4

Step 9:Press "Create Volume" to create RAID0, it will pop the warning message that all data will be lost, "press "Y" to confirm it.



Picture5

Step 10:It will back to create RAID interface, then press "ESC" or select 4 to exit and install OS.

1-2: Create SATA RAID 1

Step 1:Shut down the EUT, unplug the power cable,connect two SATA HDDS to EUT , check the EUT all devices are connect/plug ok.

Step 2: Press "PWR-BTTN" to power on the EUT, Load BIOS default setting .

Step 4:During BIOS post, press <Ctrl-I> to enter into Intel RAID setup utility.

Step 5: Select "1" to enter create RAID mode ,if there is no enough available space (there was exist a Raid , delete it).

Step 6:Create RAID 1 Mode, enter the RAID name, such as "MyRaid1", default is "Volume0".

Step 7:Select "RAID1(Mirror)" at "RAID Level".

Copuright(C) 2003-08 [ager option ROM v8.5.8.1030 ICH108/DO wRAID5 ntel Corporation. All Rights Reserved. REATE VOLUME MENU J
Name: RAID Level:	Volume8 Mill(Wirror) Select Disks N/A
	L HELP J
	nose the RAID level:
RAID 1: P RAID 18: Mirro	Stripes data (performance). Hirrors data (redundancy). Drs data and stripes the mirror. Stripes data and parity.
[11]Change [TRB]-Net	kt [ESC]-Previous Menu [ENTER]-Select

Picture6

Step 8: You can select the "Strip Size" and define RAID capacity in "Capactity".

Step 9:Press "Create Volume" to create RAID1, it will pop the warning message that all data will be lost, "press "Y" to confirm it.

Step 10:It will back to create RAID interface, then press "ESC" or select 4 to exit and install OS.

1-3: Create SATA RAID 5

Step 1:Shut down the EUT, unplug the power cable,connect three SATA HDDS to EUT , check the EUT all devices are connect/plug ok.

Step 2:Press "PWR-BTTN" to power on the EUT,Load BIOS default setting .

Step 3:At "Integrated_Peripherals" page "OnChip SATA Type" item set is as "RAID" mode, save and exit.

Step 4:During BIOS post, press <Ctrl-I> to enter into Intel RAID setup utility.

Step 5: Select "1" to enter create RAID mode ,if there is no enough available space (there was exist a Raid , delete it).

Step 6:Create RAID 5 Mode, enter the RAID name, such as "MyRaid5", default is "Volume0".

Step 7:Select "RAID5(Parity)" at "RAID Level".



Picture7

Step 8: You can select the "Strip Size" and define RAID capacity in "Capacity".

Step 9:Press "Create Volume" to create RAID5, it will pop the warning message that all data will be lost, "press "Y" to confirm it.

Step 10:It will back to create RAID interface, then press "ESC" or select 4 to exit and install OS.

1-4: Create SATA RAID 0+1

Step 1:Shut down the EUT, unplug the power cable, connect four SATA HDDS to EUT , check the EUT all devices are connect/plug ok.

Step 2: Press "PWR-BTTN" to power on the EUT, Load BIOS default setting .

Step 3:At "Integrated_Peripherals" page "OnChip SATA Type" item set is as "RAID" mode, save and exit.

Step 4:During BIOS post, press <Ctrl-I> to enter into Intel RAID setup utility.

Step 5: Select "1" to enter create RAID mode ,if there is no enough available space (there was exist a Raid , delete it).

Step 6:Create RAID 0+1 Mode, firstly create RAID 0 Mode, enter the RAID name, such as "MyRaid0+1", default is "Volume0".

Step 7:Select "RAID0(Stripe)" at "RAID Level".

Step 8:Select two HDDs in "Disk" by space key.



Picture8

Step 9:Press "Enter" to finish HDD selection and it will back to RAID creation interface. Step 10:Repeat RAID1 creation step and exit,then install OS.

Intel RAID SOP (Windows for WIN7)

2.Intel(R) Matrix Storage Console

2-1:Create a"RAID Ready" System into" RAID 0" with two Hard Drives by Create RAID Volume from Existing HDD Drive '.

Step 1:Install Win7 OS with one SATA HDD.

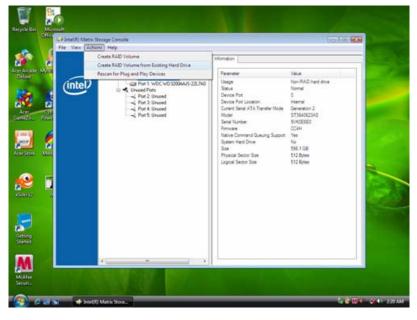
Step 2:Shut down the system, then add one Serial ATA hard drive in the system.

Step 3:Boot to OS desktop, open the Intel® Matrix Storage Console.



Picture1

Step 4:Click on the by'Create RAID Volume from Existing HDD Drive ' to create a RAID volume.





Step 5:Click "Next" at create a RAID volume window.

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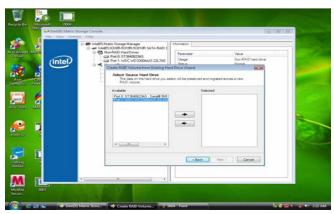
Picture3

Step 6:Key the name in "Volume Name" and select "RAID 0" in RAID Level.

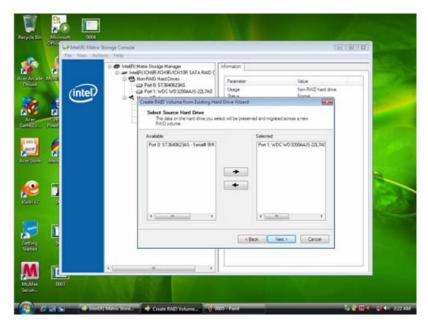
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Step 7:Select minimum HDD as "Source Hard Drive".



Picture5



Picture6

Step 8:Select Menber Hard Drive(s).

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Picture7

Step 9:Specify Volume Size then press "next".

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The minimum regulared size for the TADD volume is determined by the size of the source hard down. If you create a volume that uses their than 100% of the hard drive space, you may create a record RADD volume to use the remaining space.	

Picture8

Step 10:Press "next" to finish setup and start create RAID0.

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Picture9

Step 11:It may takes half and hours to create RAID0.After create completely, it will ask to reboot to finish create RAID0.

2-2:Create a"RAID Ready" System into" RAID 1" with two Hard Drives by Create RAID Volume from Existing HDD Drive '.

Step 1:Install WIN7 OS with one SATA HDD.

Step 2:Shut down the system, then add another Serial ATA hard drive in the system.

Step 3:Boot to OS desktop, open the Intel® Matrix Storage Console.

Step 4:Click on the by'Create RAID Volume from Existing HDD Drive ' to create a RAID volume.

Step 5:Click "Next" at create a RAID volume window.

Step 6:Key the name in "Volume Name" and select "RAID 1" in RAID Level.

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Picture10

Step 7:Select minimum HDD as "Source Hard Drive".

Step 8:Select Menber Hard Drive(s).

Step 9:Specify Volume Size then press "next".

Step 10:Press "next" to finish setup and start create RAID1.

Step 11:It may takes half and hours to create RAID1.After create completely, it will ask to reboot to finish create RAID1.

2-3:Create a"RAID Ready" System into" RAID 5" with three Hard Drives by Create RAID Volume from Existing HDD Drive '.

Step 1:Install WIN7 OS with one SATA HDD.

Step 2:Shut down the system, then add other two serial ATA hard drives in the system.

Step 3:Boot to OS desktop, open the Intel® Matrix Storage Console.

Step 4:Click on the by'Create RAID Volume from Existing HDD Drive ' to create a RAID volume.

Step 5:Click "Next" at create a RAID volume window.

Step 6:Key the name in "Volume Name" and select "RAID 1" in RAID Level.

Step 6:Key the name in "Volume Name" and select "RAID 5" in RAID Level.

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Picture11

Step 7:Select minimum HDD as "Source Hard Drive".

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Picture12

Step 8:At least select two HDD as Menber Hard Drive(s).

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Picture13

Step 9:Specify Volume Size then press "next".

Step 10:Press "next" to finish setup and start create RAID5.

Step 11:It may takes half and hours to create RAID5.After create completely, it will ask to reboot to finish create RAID5.

2-4:Create a"RAID Ready" System into" RAID 10" with three Hard Drives by Create RAID Volume from Existing HDD Drive '.

Step 1:Install Win7 OS with one SATA HDD.

Step 2:Shut down the system, then add other two serial ATA hard drives in the system.

Step 3:Boot to OS desktop, open the Intel® Matrix Storage Console.

Step 4:Click on the by'Create RAID Volume from Existing HDD Drive ' to create a RAID volume.

Step 5:Click "Next" at create a RAID volume window.

Step 6:Key the name in "Volume Name" and select "RAID 10" in RAID Level.

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Picture14

Step 7:Select two HDDs as "Source Hard Drive".

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Picture15

Step 8:At least select two HDD as Menber Hard Drive(s).

Step 9:Specify Volume Size then press "next".

Step 10:Press "next" to finish setup and start create RAID 10.

Step 11:It may takes half and hours to create RAID 10.After create completely, it will ask to reboot to finish create RAID10.

2-5:Create a"RAID Ready" System into" RAID 0" with two Hard Drives by 'Create RAID Volume '.

Step 1:Install WIN7 OS with one SATA HDD.

Step 2:Shut down the system, then add another two serial ATA hard drives in the system.

Step 3:Boot to OS desktop, open the Intel® Matrix Storage Console.

Step 4:Click on the by'Create RAID Volume' to create a RAID volume.

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Picture16

Step 5:Click "Next" at create a RAID volume window.

Step 6:Key the name in "Volume Name" and select "RAID 0" in RAID Level.

Step 7:At least select two HDDs as "Volume Location".

	nie Storage Contrile Activite - Help		
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12ee			

Picture17

Step 8:Specify Volume Size then press "next".

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(2) 6 8 8	🖬 briel(4) Marin Street. 🗰 Create RAID Volume 🔨 R0002 - Paird	A BE - 4 - 34 - 1944

Picture18

Step 9:Press "next" to finish setup and start create RAID 0.

Step 10:It may takes half and hours to create RAID 0.After create completely, it will ask to reboot to finish create RAID 0.

2-6:Create a"RAID Ready" System into" RAID 1" with two Hard Drives by 'Create RAID Volume '.

Step 1:Install WIN7 OS with one SATA HDD.

- Step 2:Shut down the system, then add another two serial ATA hard drives in the system.
- Step 3:Boot to OS desktop, open the Intel® Matrix Storage Console.
- Step 4:Click on the by'Create RAID Volume' to create a RAID volume.
- Step 5:Click "Next" at create a RAID volume window.
- Step 6:Key the name in "Volume Name" and select "RAID 1" in RAID Level.
- Step 7:At least select two HDDs as "Volume Location".
- Step 8:Specify Volume Size then press "next".
- Step 9:Press "next" to finish setup and start create RAID 1.

Step 10:It may takes half and hours to create RAID 1.After create completely, it will ask to reboot to finish create RAID 1.

- 2-7: Create a"RAID Ready" System into" RAID 5" with two Hard Drives by 'Create RAID Volume '.
 - Step 1:Install WIN7 OS with one SATA HDD.
 - Step 2:Shut down the system, then add another three serial ATA hard drives in the system.
 - Step 3:Boot to OS desktop, open the Intel® Matrix Storage Console.
 - Step 4:Click on the by'Create RAID Volume' to create a RAID volume.
 - Step 5:Click "Next" at create a RAID volume window.
 - Step 6:Key the name in "Volume Name" and select "RAID 5" in RAID Level.
 - Step 7:At least select three HDDs as "Volume Location".
 - Step 8:Specify Volume Size then press "next".
 - Step 9:Press "next" to finish setup and start create RAID 5.
 - Step 10:It may takes half and hours to create RAID 5.After create completely, it will ask to reboot to finish create RAID 5.
- 2-8:Create a"RAID Ready" System into" RAID 10" with two Hard Drives by 'Create RAID Volume '.
 - Step 1:Install WIN7 OS with one SATA HDD.
 - Step 2:Shut down the system, then add another four serial ATA hard drives in the system.
 - Step 3:Boot to OS desktop, open the Intel® Matrix Storage Console.
 - Step 4:Click on the by'Create RAID Volume' to create a RAID volume.
 - Step 5:Click "Next" at create a RAID volume window.
 - Step 6:Key the name in "Volume Name" and select "RAID 10" in RAID Level.
 - Step 7:At least select three HDDs as "Volume Location".
 - Step 8:Specify Volume Size then press "next".
 - Step 9:Press "next" to finish setup and start create RAID 10.
 - Step 10:It may takes half and hours to create RAID 10.After create completely, it will ask to reboot to finish create RAID 10.